From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: rtg@ee.duke.edu
Subject: 'Fest recognition
Message-ID: <199701211834.NAA45186@ee.ee.duke.edu>

- Greetings -

Likely the agreement on an all-over boatanchor insignia has the same chance as agreement on the ultimate HF receiver. I like RF (great initials) Buchanan's suggestion of a 5Y3 wired to the Marconi or Westinghouse cap. My variation - 807 plate cap on top the club hat - failed at Shelby last year. Don't know if it failed because (1) it was too small, (2) it was too dorky (my son usually stood at least 10 feet away, (3) I failed to bathe adequately or was otherwise repulsive, or (4) I failed to tie octal sockets in my shoe laces.

Hmmm, instead of a 5Y3, maybe the top half of a dead 6J7 with the grid lead returned to the top of the cap. If asked, you could response on a whim to the question, "Are you regenerative?"

73   Rhett - KE4HIH

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: 100V Chronicles - Virtual Chirp Elimination
Message-ID: <199701211724.LAA20983@lesol1.dseg.ti.com>

Greetings,

After accumulating enough chirp reports while using the 100V on CW, I dug a little deeper. First, I checked all the supply voltages (using a scope, of course ;-). As expected, some weren't well regulated. The -120 volts was the worst and looked awful. However, improving the regulation of the +340 and -120 by doubling the filter capacitance had no discernible effect on chirp. I also tried swapping the VR tube but, to my ear, that didn't seem to help either, so I thought about things for a week or two.

When I resumed work on the problem again, I monitored the PTO and crystal conversion oscillators with the R390 and determined that the VFO was the culprit. Since the VFO supply voltage is regulated by an 0A2, it was unclear how to easily go about improving the regulation. I opted to try all the 0A2's in my possession (while monitoring the voltage with a scope) and see if one was noticeably better than the others. It turned out that one of the 0A2's was noticeably better, cutting the shift in VFO supply voltage nearly in half. Naturally, that 0A2 has remained in the 100V. However, I could still discern a slight frequency shift on the VFO when keying the transmitter and to me the improvement didn't really seem all that significant, but lacking a better idea, I decided to operate the transmitter that way for a while to see what sort of reports I got. To my surprise, the chirp reports ceased altogether! I was amazed and began to ask most contacts whether they could hear any chirp on my signal. Every answer from the dozen or fifteen contacts I've made since changing the 0A2 has been NO, absolutely no chirp.

The conclusions I'm left with are that: 1) folks have become accustomed to super-stable riceboxes and will provide chirp reports nowadays on signals which no one would have given a second thought to forty or fifty years ago, 2) there is a "threshold" for noticing chirp such that a signal chirping more than the threshold amount will generate "chirp" reports whereas very slight improvements can place the signal below threshold such that no "chirp" reports will be generated (to me this is an interesting phenomenon), and 3) since I didn't really do much to "cure" chirp in my 100V, and given that my 100V has been reported to sound like a 100V, I believe this is a common 100V characteristic.

My recommendation to other 100V owners is, if you get a chirp report, simply select an 0A2 which provides the best regulation.

I'll also mention that I experienced minor frequency jumping of the VFO. The frequency jumping was slight enough that it only a couple of times prompted reports of it unless I asked about it first. (To my ear, the occasional abrupt frequency shift was actually more objectionable than the chirp.) The 6U8 in the VFO turned out to be the primary cause, although a secondary cause was apparently also the tube shield on the 6U8 not maintaining good ground contact. I replaced the 6U8 with a 6EA8 and removed both VFO tube shields and now the frequency stability of my 100V appears to be "rock solid".

Regards,
Bill Sorsby, N5BU

****
bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.
****

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: "Gary F. Franklin" <103273.1070@CompuServe.COM>
Subject: 32S-3 K-1 Relay Problem
Message-ID: <970121024824_103273.1070_IHH67-1@CompuServe.COM>

Hi Gang

I have a problem with the VOX relay (K-1) on my 32S-3.... It wants to remain activated after I quit speaking in the VOX mode or after I release PTT when not in the VOX mode (VOX gain at min, Anti-Vox at min, Vox delay at min). Have to turn the transmitter off to de-energize the relay!. This problem seems to be heat related, begins to act up after the transmitter has been on for awhile. Sometimes a sharp whistle into the mic will de-energize the relay..... I have done the following in an attempt to solve the problem:

Made voltage and resistance checks on the VOX amplifier (V14), VOX relay actuator (V11) and VOX/Anti-vox rectifier (V10)..... All checks out OK!

Changed out the above tubes (with several tested ones) .... Problem remains!

Checked/changed V1..... problem remains

Checked individual resistors associated with the above tubes/circuits .... all OK

Cleaned and inspected K-1 and K-2..... they look good!

This probably is not an uncommon problem with this transmitter..... any ideas????

Gary K8BKB

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: 4CX250B@miavx1.acs.muohio.edu
Subject: Re: 32S-3 K-1 Relay Problem
Message-ID: <v03007800af0ac9fa6e8d@[134.53.5.143]>

>Hi Gang
>
>I have a problem with the VOX relay (K-1) on my 32S-3.... It wants to remain
>activated after I quit speaking in the VOX mode or after I release PTT
>when not
>in the VOX mode (VOX gain at min, Anti-Vox at min, Vox delay at min). Have to
>turn the transmitter off to de-energize the relay!. This problem seems to be
>heat related, begins to act up after the transmitter has been on for awhile.

>ideas????
>
>Gary K8BKB

****
Hi Gary,

Since K1 locks on when the PTT switch is closed, the problem most likely is not associated with the VOX amplifier V14A, or anti-VOX amplifier V14B. Evidently, the VOX relay actuator V11A is conducting properly (thus closing K1), but is not turning off at the end of the VOX delay time. The challenge, therefore, is to explain why V11A is locked into the conducting mode when its not supposed to be.

Since the circuit description in the manual is a bit sketchy, let me begin by analyzing the details of the relay circuit. I've always found it easiest to diagnose a problem if I first figure out how the circuit is supposed to work.

According to the circuit diagram, the cathode of V11A is tied to a postive voltage through the voltage divider action of R88 (1500 ohms) and the parallel combination of R89 (68K) and R112 (68K), the ends of which are tied to the +275V line. The voltage at the V11A cathode when the tube is not conducting (K1 open) is thus given by 275V(1500/35.5K)=11.6V. In general, V11A will conduct, closing K1, when the voltage at its grid is comparable to or more positive than 11.6V. (If the grid is at, say, ground potential, then it will be 11.6V below the cathode voltage, and will thus be biased to cutoff.) When the PTT line is closed, this voltage divider is bypassed by R87, which grounds the cathode directly through 470 ohms. With the cathode grounded, the tube will conduct, thus activating the relay.

If you measure the voltage at the cathode of V11A and it isn't too far off from 11.6V, then we have to assume that the problem is coming from the components tied to the grid of V11A. The d.c. voltage on the grid of V11A is supposed to swing positive on voice peaks, thus activating K1, and then decay in the negative direction as the VOX time delay period is reached. In order to understand why it isn't decaying properly, we first have to understand the details of how the voltages are developed.

Looking at the components tied to the grid of V11A, we see a network of high-value resistors, R79 (8.2M),. R81(8.2M) and the VOX time constant pot R86 (10M). The signal coming from R81 is coming from the anti-VOX rectifier V10. The voltage on the plate of V10 consists of negative half-wave rectified audio from the receiver, with C121 (4700pF) doing the filtering to provide a slowing varying negative voltage. This voltage is applied to the grid of V11A through R81 (8.2M) and is intended to keep V11A from conducting on receiver speaker audio picked up by the microphone.

The VOX amplifer circuit is similar, except that the VOX recifier tube V10B provides positive half-wave rectified audio from the microphone amplifier. This positive voltage is applied to the grid of V11A through R79 (8.2M), which causes it to conduct. The drop-out time constant appears to be determined by the RC network consisting of the time constant pot R86 (10M) and C119 (.047uF). However, this circuit works in a rather odd way, since one end of C119 is left floating until V11A conducts, at which time it is tied to +275V through a set of contacts on K1. When K1 closes, C119 will charge up to 275V, with a time constant whose maximum value is R86(10M) times C119(0.47uF), or 0.47sec. While C1 is charging, the charging current through R86 will hold the grid of V11A positive, thus keeping K1 latched until C119 is fully charged.

So far as I can see, the only component failure that would explain your symptoms would be a leaky C119. If C119 was showing some leakage resistance, then when K1 was closed, the leakage current through C119 would latch V11A into a permanent conducting state. Once K1 was closed, there would be no way to open it, because of the K1 contacts that tie C119 to +275V. It would only take, say 10-20Mohms of leakage resistance to cause this problem, so you wouldn't notice the problem measuring resistances on the tube pins. Furthermore, the problem would exist regardless of whether K1 was closed by the VOX circuit or the PTT, which is consistent with your symptom. Note that C119 might very well test okay on a capacitance meter.

My advice: replace C119 with a new capacitor. If you want to check the diagnosis, just lift one end of C119 and see if the problem goes away (keeping in mind that your time constant will be so short you'll have chattering relays.)

I may be completely off base in my diagnosis and it will turn out to be some other problem. However, this is my best guess, and I'll just have to be embarrassed if it turns out to be something else. Good luck.

73,

Jim W8ZR

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: km1h@juno.com
Subject: 38S Cabinet
Message-ID: <19970120.220232.9799.11.km1h@juno.com>

Good Evening BA's. I found the following over on a QRP list. Maybe one of you RME fans will put him out of his misery! BTW, the 38S is a basic, basic, entry level SS QRP Toy.

73.........Carl KM1H

--------- Begin forwarded message ----------
From: "Claton Cadmus" <aplitech@Spacestar.Net>
Subject: 38S Cabinet
From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: 8416
Message-ID: <32E45880.7020@vifp.monash.edu.au>

Hi fellow anchorites,

Can anyone help me with the specs for an 8416. I think this is a 12 volt version of a 6DJ8 used in some Tek plug-ins I have but I can't find it in any of my books.

Thanks es 73

Morris VK3DOC

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----------------------------------------------------------------------
Morris Odell                 Victorian Institute of Forensic Medicine
Forensic Physician                  57-83 Kavanagh St, Southbank 3006
morriso@vifp.monash.edu.au                                Victoria,
Australia

Web page: http://www.vifp.monash.edu.au/CFM/staff/mo.html
----------------------------------------------------------------------
```

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Cal Eustaquio N6KYR <ceustaqu@dot.w6bhz.calpoly.edu>
Subject: A BA weekend
Message-ID: <Pine.SUN.3.91.970121071834.15936A-100000@dot.w6bhz.calpoly.edu>

Hi folks:
I had a great weekend and I am now the proud owner of two BA's!

BA#1

R-392. Stromberg-Carlson. Couldn't believe how good this set is! Traded my good buddy some equipment for this one. I guess I got the better end because I'm getting back some space in trade (but he is getting good stuff, tho'). Sensitivity is surprisingly nice. Picked up some of my favorite SW stations. Also has a pretty good SSB detection. Never had to ride the RF gain. Essentially an R-390 in an abbreviated package. A nice roundoff to my "Collins" rx collection. Just a quesion to you R-392 folks out there. I understand that one has to bring the plate voltage up to about 28VDC for better sensitivity. Does one have to separate the plate supply from the filament supply in order to preserve the onboard tube filaments when running at this level? Presently, both the plate and the filament voltages are tied together.

BA#2
51-S1. Just got it in the mail one day after the R-392. What can I say? Very clean condition. Previous owner kept it in good condition. Cabinet appears to be a former KWM cabinet professionally modified to take the S-1. Luckily I had a 312-B3 "lying in wait" all these months. But the rx needs some slight adjustments.

So, with that, my "brag sheet" has ended. Looking fwd to putting them to usage on BA RTTY mode too! 73's. Cal.

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: km1h@juno.com
Subject: Amazing finds in strange places
Message-ID: <19970121.193627.9887.15.km1h@juno.com>

Good evening all BAers.

Today began with a phone call from a construction worker friend who is with a company that specializes in "urban renewal" projects. He said they were within a day or less of a block of derelict buildings but that I may be very interested in one of them.

This particular building (5 stories) is best described as in an area not usually visited my Caucasians without a .44 Magnum or armed escort. Amazingly the upper levels were not ravaged and I discovered the remains of a Radio Shop that closed its doors in 1948. There were no BA chassis or anything else with metal, etc but the almost floor to ceiling wooden cabinets contained over 1000 tubes still NIB, a complete Riders from #1 to #13 in near mint condx, and 27 NIB Philco Cathedral Cabinets (records show they were purchased to replace flood damaged radios from the '39 Hurricane). There were also many other pubs, catalogs, etc from the era. Anything of "local" value was long gone.

The most amazing find was in a basement area that was sealed off to the average druggie. In a bricked off area there was a 1941 Nash 4 door sedan with only 1739 miles on the odometer! This area had a wooden floor and the car is near mint; no rust; fine interior and the original green paint shines under over 55 years of accumulated grime. I suspect this car was hidden from the authorities after the beginning of WW2 and fear of Govt confisication. The Owners Manual is in the glove box but there is no other info EXCEPT for the 1941 plates. I will attempt to track down the original ownership; but Massachusetts records are known for incompleteness. Why anyone would want to hide a Nash escapes me....a Packard or Caddy OK.

Anyway, the Cathedral cabinets are pretty much spoken for and I will hold on to the tubes at least until I have had a chance to inventory; 01A's,etc are in the lot. The Riders are duplicates so I will be open to offers on them....preferably all in one lot.
The Nash is going home with me tomorrow on a trailer...I've spent 2 hours on the phone to find a safe and dry storage.

All in all a very fruitful day....and the Magnum stayed holstered!

73........Carl   KM1H

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: FPorzelt@seic.com
Subject: AN / GRR-5 ???
Message-ID: <vines.I,I8+F0GtmB@WAYNE.SEIC.COM>

Hi All!

First, I'd like to thanks all who responded to my questions about crystals for the Drake 2-NT. I received a lot of great information and many "helpful hints". I think I answered eveone who wrote, but I apologize if I missed anyone.

I have a "AN/GRR-5 Radio Receiving Set" coming soon. I think it is a R174-URR rx and a PP308 power supply. I will be getting the original manual. Any comments on this rig? Was/is it considered a good receiver? I think covers up to 18 mHz. What was the main use for this rig back when it was in service?

This will be my first piece of military gear and kind of wonder what to expect... I'm new to ham and ba's and have found the people on this list to be really neat! Thanks to all who read this and any who may wish to respond.

Take care and 73
Fred KB9MVU
fporzelt@seic.com

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Rudy Salomon <rhs@pacbell.net>
Subject: AN/MSR-1
Message-ID: <32E51D4E.59F7@pacbell.net>

Came across an interesting site on the web. The Wright Patterson Air Force Museum. Lots of good displays of aircraft but one display in particular, an Air Force AN/MSR-1 communications intercept van.

At http://www.wpafb.af.mil/museum/vfe/vfe2-1.jpg can be seen an interior shot of this van. Unfortunately all that is offered is a side view of the

equipment racks. I can make out what appears to be a piece of Collins
S-line gear, but thats about it. Can anyone else I.D. any radio gear in
this picture??

73 de Rudy - KD6NRQ

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: n5off@w5ddl.aara.org
Subject: Anyone Got NEXIS?
Message-ID: <560601@w5ddl.aara.org>

Looking for a BA type with NEXIS capabilities to look up some govt contract awards in Commerce Business Daily. I think there are some R-390A contracts in there.

Thanks
Tom N5OFF

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: midshires@cix.compulink.co.uk (Andrew Emmerson)
Subject: APX-6 available
Message-ID: <memo.548520@cix.compulink.co.uk>

Reading the recent offer of a manual for the APX-6 (gosh, that went quickly!), reminds me I have an APX-6 here in beautiful condition. It was modified slightly for amateur use by W1CUT (from memory) and described in _QST_ magazine many moons ago. I acquired it from the author, also several moons ago.

It comes with plenty of period literature and is in extremely fine condition. It is an American production, although identical sets were constructed over here in Britain under licence.

I'd willingly trade it for an image orthicon television camera or something of that ilk, paying shipping on both items. Possibly consider selling or other trades. From the same era I have another 'heirloom' for disposal -- a 23cm parametric preamp using a klystron running at 10GHz. Beautifully constructed and the only way to get low-noise amplification in the pre-GaAsFET era.

73,
Andy.

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997

From: "Allan Fritsche" <fritsche@msn.com>
Subject: BA I.D.'s at Hamfests
Message-ID: <UPMAIL03.199701212313500386@msn.com>

Hey Gang, this subject has come up so many times over the last 2 years, that by now, With all the suggestions, (good or bad), no one has adopted one as a group.
It's like anything else, each man or lady is an individual and chooses to dress the way they are comfortable.

For my .0002 cents worth.

Now, what about a simple t -shirt for the Southern guys with a large BA on the back.
Northern Guys probably would have to do it on jackets as they are So Cold........Weather wise
Pretty simple stuff. Cost almost zero.
Comments
Al
fritsche@msn.com

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: don merz <71333.144@CompuServe.COM>
Subject: BA ID
Message-ID: <970121184631_71333.144_DHB52-5@CompuServe.COM>

Well, I don't know about wearing any BA-logos or such but I would like to have an 8-1/2 x 11 or so cardboard sign to hang up at my table when I'm (rarely) at a hamfest. At least then you could all meet my kids--I'll be out shopping!
73, Don

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Tom Kelly <tjkelly@apk.net>
Subject: BA IDs & BA FEST
Message-ID: <32E55E81.53AE@apk.net>

Greetings,

The discussion of BA IDs reminds me that last month there was discussion of holding a BA Fest with several sites offered as possbile canditates. It sounds like a great idea to me. What happened? Is there anything that can be done to help this idea into reality?

Regards,

Tom

--

Tom Kelly
Novelty, Ohio (east of Cleveland)

mailto:tjkelly@apk.net

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Conard Murray <ws4s@InfoAve.Net>
Subject: BA list member ID
Message-ID: <2.2.32.19970121160349.009de3f4@infoave.net>

Maybe we should wear the badge on our shoes!
Conard

```
.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.
. Conard Murray  WS4S    Glowbugs listowner .
.  217 Dyer Avenue        ws4s@infoave.net  .
.   Cookeville, TN  38501  615-526-4093     .
.    <><  Wise men still seek Him  <><      .
.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.
```

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Mike Toneri <toneri@ils.net>
Subject: BA parts place re-discovered
Message-ID: <199701220241.VAA01935@server1.ils.net>

Needing a new 6BY5GA for the Valiant, I called my favourite BA parts place to find out (a) if it was still there and (b) how much for the tube. I knew the BIG parts supplier would charge a load of greenbacks for the tube. Well, He was still in business and the 6BY5GA was only $12 (that's Canadian $). Good buy I thought. Asked him how much for a new 6CL6 and 5763 tubes...$5 each. Also got a new 455 kc IF transformer for my S108 (perfect match) and a knob for the Calibrate control on the NC303 (almost perfect match). Also got a few 40 mfd 450V electrolytics and a few fuses. Total cost $30. I will have to visit there more often, at least until the XYL finds out where the spare cash is going.
73...Mike VE3FGU

****
Mike & Lynda Toneri   E-mail: toneri@ils.net
****

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Al Klase <alklase@prolog.net>
Subject: Re: BA Rendezvous
Message-ID: <199701211853.MAA19885@uro.theporch.com>

Fellow Thermionics,

We kicked the BA ID idea around once before. The suggestion I liked best was to wear an ARC-5 frequency dial as an badge. However, as others have pointed out recently, we don't look at people at hamfests when we're hunting treasure, and giving yourself away as a hard-core collector (bull-goose looney?) realy does degrade your bargaining position when you do find something you gotta have.

Here's what I did do at Gaithersburg last fall that worked: I posted a BA sign (ARRL rip off) at my table and left a sign-in sheet for when I wasn't there. Got about 20 signatures and met about 2/3 of the guys. Perhaps the best solution is "Ba Spoken Here" signs on our tailgates, especially if on top of an SP-600.

73,
Al

Al Klase - N3FRQ
alklase@prolog.net
Flemington, NJ

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Bob Roach <KE4QOK@worldnet.att.net>
Subject: RE:BA Rendezvous (was Frostfest Fun)
Message-ID: <19970121101216.AAB18841@LOCALNAME>

>From: Bill Meara[SMTP:wmeara@erols.com]
>I think we need to think about some sort of system to make it easier for
>list members to find each other at 'fests. I don't know, maybe funny hats
>or something

> From: Dennis Gibbs
>I have to second this suggestion; I went to the Frostfest and the only BA list
>member I managed to meet wasx Nick England. Unfortunately, I had to
>leave before the noon gathering,

I agree with all above. Some quick dependable means of spotting BA folk
would be great. Meeting at a specific time, especially for lunch, can cause
conflicts since many of us have many commitments of this nature. Silly as
it sounds, disticntive hats might be the best way. How about a hat with a
boat anchor on it, that's suttlle.<GGG>

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                                                       (o   o)
____________________oOO_(  )_OOo_________
73 es TNX
KE4QOK            Real radios glow in the dark.
Bob           Power is no substitute for skill.
              If it stayed up last winter, it was too small.
136 Hermitage Rd.
Newport News, Va. 23606 KE4QOK@worldnet.att.net
(757)930-0348
```

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: w2ec@VNET.IBM.COM
Subject: RE:BA Rendezvous (was Frostfest Fun)
Message-ID: <199701211311.HAA13195@uro.theporch.com>

>I agree with all above. Some quick dependable means of spotting BA folk
>would be great. Meeting at a specific time, especially for lunch, can cause

I know this is heresy but, why not just pick a BA 2 meter FM calling freq and
give a shout that you've arrived, or are looking to meet up with other BA
people. Yeah, I know we should really be using our BC-611's or strapping
a Gonset and a car battery to our hips, but let's face it, being BA literate
doesn't mean we have to ignore the advantages of a 2m FM HT. Plus we can clip
it to our belt and keep our hands and arms free for hauling our treasures
back to the car. Can anyone suggest an out of the way simplex BA freq?

73, Ray

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: John Kolb <jlkolb@cts.com>
Subject: RE:BA Rendezvous (was Frostfest Fun)
Message-ID: <Pine.SCO.3.91.970121081118.20776B-100000@sd.cts.com>

On Tue, 21 Jan 1997 w2ec@VNET.IBM.COM wrote:

> >I agree with all above. Some quick dependable means of spotting BA folk
> >would be great. Meeting at a specific time, especially for lunch, can cause
>

> I know this is heresy but, why not just pick a BA 2 meter FM calling freq and give a shout that you've arrived, or are looking to meet up with other BA

Two problems here - not all BA folks are hams or want to be, and any SWLs that love old receivers are more than welcome.

Second, when I'm at a swap meet, I only pay enough attention to the people walking down the rows to avoid being stepped on - my attention is to the "stuff" along either side. The hat or whatever would have to be REAL noticiable to get my attention :)

John

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: azoth@netcom.com (Az0th)
Subject: Re: BA Rendezvous (was Frostfest Fun)
Message-ID: <199701211753.MAA04281@netcom6.netcom.com>

Hi ho,

> Second, when I'm at a swap meet, I only pay enough attention to the people walking down the rows to avoid being stepped on - my attention is to the "stuff" along either side. The hat or whatever would have to be REAL noticiable to get my attention :)

Would you notice, say, a 78 or a 6080 or maybe a defunct 5Y3 wired to the top of a Cat (or Euc or Allis Chalmers or...) cap. Kinda give us that inspired lightbulb look (or that other, expired burned out lightbulb look!)

RF Buchanan

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Laird_Tom_N@hpmail1.90.deere.com
Subject: RE:BA Rendezvous and Dayton
Message-ID: <H00005a0048c6075@MHS>

}I know this is heresy but, why not just pick a BA 2 meter FM calling
}freq and give a shout that you've arrived, or are looking to meet up
}with other BA people. Can anyone suggest an out of the way simplex BA
}freq?

}73, Ray

This may work for small/medium hamfests, but we tried this at Dayton
last year and it didn't work! Lots of intermod and most turned them off
so not to listen to the noise. What did work was publishing a list of
flea market spaces of BA people. I did it last year and am willing to do
it again this year. Send me your call, name, space and hotel if you want
and I'll publish the list every two or three weeks and twice the week
before Dayton. If you don't have a space, just put "Walk Around" instead
of space #. Don't forget to print the list before you go and make
extra's for the people who forgot(I ran out last year!). Also, even
though I'm not an AMI member, I suggest we meet at their lecture room to
eyeball, providing they have it this year.

Tom Laird WC9M Moline, Il
TL39597@deere.com

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: BA/GB on 200 meters an' down tonite anyone?????
Message-ID: <9701212235.AA126857@csemail.cropsci.ncsu.edu>

I haven't been on the BA/GB 200 meters an' down QRG (1802R500 khz) in a
great long while.... The ol' Top Band is hot as a firecracker, lately,
so anyone interested in plying the ethers tonite about 0200/0300/0400/0500?
I will keep the RAL hot on the QRG, along with Big Bertha Radiomarine, just
to see if anyone still be about..... wats be fine an fiery in the ol glo....

73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Spencer Petri <spetri@e-tex.com>
Subject: BAer Recognition
Message-ID: <m0vml55-0000jZC@e-tex.com>

How about spraypainting your hamfest sneakers flourescent orange? That ought
to be "noticeable" !! #:-)

73 de Pete WA5JCI

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Mike Toneri <toneri@ils.net>

Subject: Re: BAs Prevail - VK0IR WKD!
Message-ID: <199701210357.WAA14200@server1.ils.net>

At 04:39 PM 1/20/97 -0600, David L. Thompson wrote:
>K7SZ wrote:
>>This afternoon at 2103Z I worked VK0IR with the Halli SX-117/HT-44
>>boatanchor rig. Used a Heil HC-4 mic element in a Optimus (Rat Shack)
>>headset/boom mic clip-leaded to the HT-44 mic jack. Transmitting about 25
>>watts SSB (that's all she puts out!) on 14.208 receiving VK0IR on 14.195. In
>>addition to the 599 rpt, the Heard Isl. Op said "Nice audio", at which time
>>I told him what I was running.
>
>I worked VK0IR on 40 CW with the HQ170C and BW 5100B barefoot into my 40 M
beam.
>2nd call, too.   Used an old heath HD 1410 keyer.   They operate 7007 listen
>UP 3 to 5 and 7022
>listen above 7025.   Bet more old glow bugs can make the grade between 00
>and 0300Z daily.
>
>BTW I use the Heil HC-4 in the Heil BM-10 for my AM on the Elmac A-54H and
>AF-67. Works great!
>
>Dave K4JRB
>

I guess I will add my two bits worth to this thread as well. IN the winter months I like to operate my trusty Johnson Adventurer, crystal control of course, on 80 and 40 metres. I have worked many DX stations all over the world on 40 with it and at least 50 countries on 80 metres. It just goes to show you that one doesn't need the latest computerized rig with 3 kw output and multi-element arrays to work the DX.
73..Mike VE3FGU

****
Mike & Lynda Toneri   E-mail: toneri@ils.net
****

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Mikhael Brown <mikhael@hpcmmp13.sj.hp.com>
Subject: BC-610 list
Message-ID: <199701210349.AA015778588@hpcmmp13.sj.hp.com>

Hello Boatanchorites and BC-610 owners,

I am putting together a list of known BC-610 transmitters.

Mine is a BC-610I Serial # 21 Order # 18723-Phila-49

Please send me the model #, Serial # and Order # so I can add it to the list. After I get it put together I will put it in the archives and keep it updated. If there is any other information that the list feels should be included, please e-mail me direct.

Mike

N6WIG

--
This is a private opinion or statement and is nobody's fault but mine. No person, employer, or government should try to take credit for it!

mikhael_brown@hp.com

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: rtg@ee.duke.edu
Subject: C & L & M
Message-ID: <199701211711.MAA45077@ee.ee.duke.edu>

- Greetings -

There has been some wonderment and some good info on electrolytic caps over the last several days. Here is another ha'pennies worth.

The electrolyte not only forms the oxide/salt layer on the aluminum electrode, but stays with the electrode in a layer of paper, thin and perhaps related to toilet paper. Should something happen to disturb the oxide/salt layer, more electrolyte is available to reform same. The dielectric is the oxide layer. The blotter is filled with electrolyte and is a conductor in series with the other electrode. That is, unless the electrolyte has leaked out or evaporated. (A recently purchased homebrew p s is sitting on plastic until I replace its leaky filter cap. A 35 year-old motor starting cap failed - the capacitance dropped to maybe 0.0001 of the rated value, most likely do to evaporation.)

In the good ol' days, electrolytic cap tolerance from some manufacturers was +100% -20%. I should not be surprised to find an occasional one at twice the rated C, eskpecially if the oxide layer had thinned a little bit due to operation at considerably less than the rated voltage.

Regarding the abundance of used u-wave oven transformers, one correspondent was quite right in noting the presence of magnetic shunts between primary and secondary. These are for current limiting. If the secondary reluctance becomes too high due to excessive load current, some of the flux lines duck across the small air gap, thru the shunt, and head home for the primary barn. Fluorescent lamps ballasts do the same thing as do arc-welding transformers. What it means for us is that L & M (self inductance and mutual inductance) change with load. It also means that the u-wave oven transformer will not be a voltage-stiff transformer unless the shunts are removed. The empty space after removing the shunts does not hurt anything. You may fill it with wood or with other windings, if desired.

The u-wave oven transformer is well-suited to this mod because the magnetic core size in the same, primary and secondary. This is not necessarily a safe thing to do with a Sola constant-voltage transformer because the secondary core may have a smaller cross-section which would dictate some flux lines always passing thru the shunts unless input voltage is reduced.

Hope the wordiness does not interfere with the message.

73   Rhett - KE4HIH

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: km1h@juno.com
Subject: Re: C & L & M
Message-ID: <19970121.172202.9887.9.km1h@juno.com>

Rhett...Congratulations:

I am actually amazed to hear such a good explanation without the usual windage and flatulent level platitudes all too common here.

BRAVO on a job well done.

73 from Carl   KM1H in laconic New Hampshire

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: "Scott C. Gray" <scotgray@cwnet.com>
Subject: Collins "S" line xtal needed
Message-ID: <32E44FE0.607E@cwnet.com>

Looking for a 16227.500 mc xtal for my 75S3. Collins Part # 290-9148-00.
Operational range of 29.3-29.5 mcs (RS10/15 downlinks).

Also, a 16077.500 (29.0-29.2) and a 15727.500 kcs (28.3-28.5).

If available, I may be interested in a full general coverage crystal pack.

Please e-mail if you have any spare Collins xtals hanging around.

73
Scott   KD6CQ
scotgray@cwnet.com

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: gcr2@po.CWRU.Edu (George C. Rybicki)
Subject: Collins Crystal pack FS
Message-ID: <199701220159.UAA07956@piglet.INS.CWRU.Edu>

Collins   Cp-1 xtal pack for sale. 115 or so xtals covering
3.2 to 30 mhz. $125 delivered.
73   George

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: John Kolb <jlkolb@cts.com>
Subject: Re: collins mechanical filter idetification
Message-ID: <Pine.SCO.3.91.970120220030.26480A-100000@sd.cts.com>

On Mon, 20 Jan 1997 ALanger394@aol.com wrote:

> Please can any one help me to identify the following collins mechanical
> filters
>
> 1. F455Y21 6431   pt no 526 9337 00
>
> 2. F455219 6815   pt no 526 9630 010

1. F455Y-21 455 kHz AM filter 2.1 kHz @ - 6 db, 5.3 kHz at -60 Y case

2. F455Z-19F 455 kHz LSB filter 2.8 kHz wide @ - 2 db Y case (long)

John Kolb KK6IL jlkolb@cts.com

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Paul Nelson <drhydro@ames.net>
Subject: Collins PTO digital replacement
Message-ID: <l03010d01af0afe5a9582@[1.1.1.1]>

Lon Cottingham wrote:
>   Would there be any interest in a plug and play digital PTO replacement

>for most of the Collins designed PTO (there are far too many types to
>attempt them all)? What I invasion is a digital synthesizer, driven by

AARGH!!! A BA INVASION BY WHOLE CUBIC YARDS OF SAND!

Sorry, Lon, but your typo was just too good to pass up! No offense intended. My own feeling about your proposal is simply that it doesn't match my feelings about this gear... part of its appeal to me is that it IS imperfect, and nonlinear, and the tweaking and tuning are part of the game... sorta like a vintage British sports car with a Lucas electrical system and SU carbs- lots of 'em, needing synchronization every weekend.

(Not that I wouldn't mind the precision of such an approach.... but it seems that you'd have to do something about the offsets and drift on each band to really have something.)

```
Paul Nelson W5GNF               "When I go, I want to go quietly, in my
Ames, Iowa                       sleep, like my grandfather- not
                                 screaming, like his passengers."
(DrHydro@ames.net)
                                 "More hay, Trigger?"
 Cessna 140 N77149               "No thanks, Roy, I'm stuffed."
```

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: "Lon W. Cottingham" <k5jv@swweb.net>
Subject: Collins PTO digital replacement?
Message-ID: <32E5259E.7AD6@swweb.net>

Greetings to All,

Would there be any interest in a plug and play digital PTO replacement for most of the Collins designed PTO (there are far too many types to attempt them all)? What I invasion is a digital synthesizer, driven by the receivers existing gear train that will tune in 10 Hz, or less (probably 1 Hz), steps. It would be accurate to a degree better than the Veter Root display is capable of displaying. It would never drift. End spread would always be perfect. This could probably be produces and sold in small quantities for under $500. In large quantities, that price could probable be cut by one half. The technology is certainly available. What about the desire?

73 de Lon, K5JV

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Cal Eustaquio N6KYR <ceustaqu@dot.w6bhz.calpoly.edu>
Subject: Comments needed on 28VDC for R-392
Message-ID: <Pine.SUN.3.91.970121083922.15988A-100000@dot.w6bhz.calpoly.edu>

Folks:
I guess its better to post this with a more direct approach than my previous e-mail.

A new question arises from the fact that 28VDC is needed for more sensitivity on the plates of the R-392. However, my filament supply is tied to the plate supply. That means the 26A6's and whatever else is hooked up to the filament supply will be getting two or more volts on their filaments. Or am I missing something? I was thinking that there may be an onboard dropping resistor prior to feeding the filament supply. Some replies told me that they have no problem running both fil and B+ on 28V. Others say that you have to split off and mete out the voltages accordingly. What gives? Cal. N6KYR. AMI #537. RTTY INT'L #001

"3rd Lt." Cal Poly Army ROTC "Fighting Mustangs"
SMP Cadet, Bravo Company, 1/149 Armor Battalion, California Army Nat'l Guard
"Armor--On the Way"

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Tom Norris <badger@telalink.net>
Subject: Comments needed on 28VDC for R-392
Message-ID: <3.0.32.19970121182125.006a7334@telalink.net>

>Date: Tue, 21 Jan 1997 10:47:36 -0600 (CST)
>A new question arises from the fact that 28VDC is needed for more
>sensitivity on the plates of the R-392. However, my filament supply is
>tied to the plate supply. That means the 26A6's and whatever else is
>hooked up to the filament supply will be getting two or more volts on
>their filaments. Or am I missing something? I was thinking that there may
>be an onboard dropping resistor prior to feeding the filament supply.

The R-392 brings filament and plate out via seperate pins on the power connector. Just connect the 28-32 volts plate to the plate input and 22-24 volts filament to the filament input. I use a regulated supply on mine that has
both outputs regulated to provide the plate and fil inputs for the receiver.

Visit my web site with info on military communications gear:

HTTP://telalink.net/~badger/millist/index.html

Am in the middle of reorginazing this page, so if you see any
glaring (or not) errors, lemme know!

****
Tom Norris KA4RKT
badger@telalink.net   Nashville, Tennessee, USA
thermionic@techie.com

****

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: n5off@w5ddl.aara.org
Subject: Cosmos Adjusting Screws
Message-ID: <561160@w5ddl.aara.org>

In response to the posting today doubting the existence of linearity adjustment of the Cosmos PTO, I'd like to direct all non-believers to the Cosmos patent application no. 3,098,989.

I wouldn't have been clever enough to make that stuff up :-)

See your library for details.

73 de tom N5OFF

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: "Lon W. Cottingham" <k5jv@swweb.net>
Subject: Cosmos PTO
Message-ID: <32E546E0.6025@swweb.net>

Jim,

The posting I responded to clearly stated "Cosmos PTO". If your 100V PTO was made by Cosmos, I owe you, and all other such owners, a profound apology. My 100V does not have a lid that gives easy access to its innerds so I can not easily check to see if the PTO was manufactured by someone other that Central Electronics. I really doubt it, but I guess it could have been built by Cosmos. At any rate, my observations were directed only to the R-390A PTO but generally apply to any of the "Collins designed" PTO's of that time period: R-388, R-390, R-392, R-725, T-195, T-368, 51J series, etc. I was not speaking about the Central Electronics design.

The 100V was a very inovative transmitter for its time. I would think that its designers recognized the need for periodic adjustment of PTO linearity and also realized the conventional design (Collins) of that time was was almost impossible to adjust in other than laboratry conditions. Perhaps that is why they provided a different approach to the problem?

By the way, I have a few large 21" x 30" (approx) schematics for the 100V. My 100V came with an original manual, but no schematic. It took some scrounging, but I came up with an 8 1/2 X 11 schematic and had it enlarged.

--

73 de Lon, K5JV

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: DCPIN@aol.com
Subject: DEOXIT
Message-ID: <970120223541_1344700519@emout18.mail.aol.com>

Could anyone tell me the differnce between the product DEOXIT and the product DE-OX-ID elrctronic contact cleaner made by GC Thorsen? Is it a knock-off or something different?

Thanks Chris KO4QW

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: vancleef@netcom.com (Henry van Cleef)
Subject: Re: DEOXIT
Message-ID: <199701210451.VAA10757@netcom7.netcom.com>

As DCPIN@aol.com discourses

> Could anyone tell me the differnce between the product DEOXIT and the product
> DE-OX-ID elrctronic contact cleaner made by GC Thorsen? Is it a knock-off or
> something different?

"DeOxit" is made by Caig Laboratories, who specialize in chemicals for electronics devices. I have used it exclusively, and am happy with it. It is approved by many manufacturers for use on their equipment, and I think Tek, HP, DEC, a few of the biggies, if I recall correctly. It seems to be pretty well accepted as THE stuff for pots, switches, etc. Pro-Gold is a similar product, for gold-plated contacts, where bleed-through from the base metal can be a problem.

"GC," which is the current name for "General Cement" is a name that was around when I first started fiddling with radios over fifty years ago. I have a lot of GC stuff, such as Coil Dope (it's the stuff the OEM's used in the forties)---a staid and venerable name, like American Phenolic Co. which became Amphenol so long ago no one remembers their original name.

However, I've never used what they are selling. Considering the source, it is likely to be pretty good. However, unless somebody here can talk about using it, and what the stuff is like after two or three years, I think you're somewhat on your own.

```
--
==================================================================
Hank van Cleef
E-mail vancleef@netcom.com or vancleef@tmn.com
==================================================================
```

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: dr.electron@juno.com
Subject: RE: DEOXIT
Message-ID: <19970120.232226.7703.3.dr.electron@juno.com>

```
hello to all;

       QUESTION: HOW DOES THIS STUFF COMPARE/RELATE TO CAIG'S
        " CRAMOLIN ", RED ( CLEANER/DEOX ) AND BLUE ( PRESERVATIVE ) ?

     THESE HAVE WORKED WELL FOR ME, DESPITE THEIR 1982
     MANUFACTURE DATE.

     ALSO, HOW ABOUT MILLER - STEVENSON  " CONTACT RENU & LUBE " ?
     GOODS RESULTS WITH THIS ALSO.

     0111 0011's <H> , RICH P
          #        #        #
```

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: "Richard L. Duell" <rduell@iac.net>
Subject: Re: DEOXIT
Message-ID: <2.2.32.19970122020314.0094a818@iac.net>

At 09:03 1/21/97 -0600, you wrote:
>The only real thing is DEOXIT, made by Caig Laboratories.   Accept no
>substitute: this stuff is just short of magic. It solves nearly every problem
>I can think of, aside from how to find my eyeglasses in the morning.

And for those of you that suffer the unreliability of the contacts and switches presented by Lucas electricals in English boatanchor roadsters, (Triumph in my case) it fixes that problem too.

73, Rich - W5VDU

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Stanley Siegel <SIEGELS@turing.law.nyu.edu>
Subject: DEOXIT -Reply
Message-ID: <s2e49145.060@turing.law.nyu.edu>

The only real thing is DEOXIT, made by Caig Laboratories.   Accept no substitute: this stuff is just short of magic. It solves nearly every problem I can think of, aside from how to find my eyeglasses in the morning.

I have no relationship with Caig, apart from my dependence on their product.

73,   Stan   W2ST

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: km1h@juno.com
Subject: DEOXIT and other cleaning questions
Message-ID: <19970121.102648.9887.2.km1h@juno.com>

Where does one find this wonderful stuff? And does it come in a spray with a tube applicator to get into tight places?

I had a bad experience this past summer with Chemtronics 2400 on a TS-820S that was in the shop for intermittent power output. That xcvr uses a PC board band switch for all RX stages and TX stages up thru the 12BY7 driver to the 6146 grids.

The spray temporarily restored operation but it slowly (over about 10 minutes) became worse than before. Tuning was erratic and the finals would not neutralize. The trusty Tripplet 630 confirmed high resistance paths between contacts on the phenolic PC board. I tried cleaning again with Miller-Stevenson 941 Precision Cleaning Solvent but it only made it worse and I could hear arcing.

It required complete removal of the board and a thorough soap and water cleaning plus about 4 hours of drying in the sun to clear up all the problems and restore the rig to full operation.

The Chemtronics makes no mention of conductivity but claims "will not detune".
The MS-941 also makes no claim about conductivity wheras the MS-930 Contact Re-Nu claims "non conductive". The contents label for both MS products is identical except for the addition of Methanol to the MS-930. Both MS products warn against use around polystyrene, ABS, and acrylics.

Is the DEOXIT an "all around" product or are multiple products required to cover a full range of uses such as pots, variable caps, tube sockets, switches, etc?

Also what do you pros out there use for general chassis cleaning? I have been using a compressor with a Sears spray paint gun modified to take a long thin brass tube. Solvents vary from 409 or the like to soap and water. The adjustable pressure and long tube make access to hard to reach places easy. But this seems like a lot of work plus I have to do it outside on the picnic table; not a year around pastime up in NH.

Any replies appreciated.

Tnx.....Carl   KM1H

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Gerald Schmitt <kc5egg@ix.netcom.com>
Subject: Re: Dow Keys

Please post this one the Boat Anchors reflector. I think it is self explanatory I tried to help a guy out and got all this grief.

---- Begin Forwarded Message

Hello Boat Anchor Fans,

Re: Dow Keys etal

Sorry for the confusion caused be a previous post to this reflector. A private message from me was forwarded to your group without my knowledge or consent. It was never my intention to post a sales offering but to simply help out a Ham who posted a need. I am interested in other aspects of amateur radio and have little knowledge of Boat Anchors this leaves me at a disadvantage it trading this type of equipment.

Based on the feeding frenzy the post generated my price was either way too low or these items are in very short supply. I really could use an Elmer in this area. Making some of my Dow Keys available is not out of the question but I would like to know what I am doing. Again sorry for the confusion but it was not my intent to have that letter forwarded.

To all those who wrote asking for relays sorry NONE are for sale now. If anyone just sent money I will have it immediately returned upon receipt. I am a scientist by trade and do not have the talent or interpersonal skills to become a merchant. If I do decide to sell of my tube radio stuff I will post it myself. I still can't believe anyone did this. Sorry for the bandwidth and possible disapointment but you will have to address that issue with the original poster.

73 Jerry KK5YY

-------------------8><------snip here-------------------------

And, to those who thought I was harsh when I used uncomplimentary terms to describe those whose focus is buying and selling, I have only this to say:

"If the shoe fits, wear it."

And, on behalf of the list, I extend my sincerest apologies for the behavior of the list members who acted in a "frenzied manner"...
--
73
Jack, W4KH/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
- - - BoatAnchor Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com ---- firebotl@jackatak.theporch.com

---

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: kenc@smartdocs.com (Ken Corwin)
Subject: Re: Dynamotor
Message-ID: <199701220247.SAA07786@warp10.smartlink.net>

Hello, Tom -

All DM-28 dynamotors are interchangeable on all BC-348s, yours included.

Regards,

Ken Corwin (kenc@smartdocs.com) Santa Clarita, Calif.

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Richard Pekelney <pekelney@rspeng.com>
Subject: EA Scott Historical Society
Message-ID: <v03007800af0afd15b5db@[140.174.162.88]>

Folks,

Does anyone have the contact information for the EA Scott Historical Society. I beleive they are somewhere in Florida.

Thank you.

rich

--
Richard Pekelney
Internet: pekelney@rspeng.com
Phone: 1-415-563-5928
Fax: 1-415-563-5787

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Al Klase <alklase@prolog.net>
Subject: Re: EA Scott Historical Society
Message-ID: <199701220307.VAA05803@uro.theporch.com>

At 05:28 PM 1/21/97 -0600, you wrote:

>Folks,
>
>Does anyone have the contact information for the EA Scott Historical
>Society. I beleive they are somewhere in Florida.
>

I think you need to make that E. H. Scott. Alta Vista search yielded the following:

E. H. Scott Historical Society Inc. (EHSHS). 3712 N. Broadway
#4450, Chicago, IL 60613. Pub: Scott News, quarterly. Dues: $20.00.
Manuals, parts and service, Scott Video.

73, Al

Al Klase - N3FRQ
alklase@prolog.net
Flemington, NJ

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: jproc@bellglobal.com
Subject: RE: EA Scott Historical Society
Message-ID: <Chameleon.4.01.2.970121212948.jproc@>

Richard,

Here is the address:

E.H. Scott Historical Society Inc.
3712 North Broadway
#4450
Chicago, Ill
60613

Their logo is king of neat too - 'The Stradivarius of Radio Receivers'. You can contact their technical expert Kent King.
Email: kak@csi.compuserve.com

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
Radio Restoration Volunteer
HMCS Haida Naval Museum
Toronto, Ontario

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Jack Harper <jharper@bs2000.com>
Subject: Re: Electrolytic Cap Failure Modes?
Message-ID: <199701211518.IAA09757@lynx.csn.net>

Thank's Ben for the reply...

At 17:05 1/20/97 -0600, you wrote:

>Jack Harper wrote:
>
>> Question: I have discovered two electrolytic caps (not in the power supply
>> but rather in the AVC and the audio output) that read about twice their
>> supposed capacitance on my trusty Fluke capacitance meter (wonderful thing
>> -- that Fluke). These guys are kind of like I am becoming -- a bit
>> discolored and a little bumpy with age...
>
>Hi Jack, the first thing I'd check is the accuracy of the Fluke. One of
>the things Hank Van Cleef has beat into my noggin is to always look at
>how you are doing the measurement before using the measurement. I've
>got a Fluke 12 with the capcitance scale and, and if I remember
>correctly, it is only good to +/-10% anyways. But, you are far enough
>out of that 10% to not suspect the meter I'd say. (Unless it is out of
>cal.)

It appears to be 'right on' with this Fluke '79' --- remarkably so in fact
-- new 33uf caps (from Nichicon courtesy of DigiKey) read 33.2uf or so.
Their resistance (of the new electrolytics) read about 5 meg-ohms (had not
considered the idea that they would measure different resistances with
different instruments due to different test voltages -- interesting -- which
implies the possibility that at operating voltages they may have very
low/high resistances -- is this true?). On the Fluke, smaller new caps
(.01uf disc ceramic) read .011 etc... I think the Fluke is ok although I am
amazed at the accuracy of modern capacitors.

I have only had the Fluke a few days (it is at home) and don't remember the
stated accuracy of the thing (typical!) -- but, I THINK it is something like
2% or some such... I did check the specs and recall being a bit surprised at
the 'tightness'. (have to check tonight).

<snip>
>
>1) Leakage. They turn into resistors. You can test them on a VTVM or
>DMM, look for low ohms. Like several megohms. Hank, Larry, Barry, or
>Stan can provide better info as to what the lowest tolerable megohm
>point is. However, some caps don't leak at VTVM voltages, and the only
>way to see the leakage is to test for it. I'll let the heavier hitters
>like Hank, Larry, Barry, and Stan talk about this, as I'm not really
>versed on it.

Every electrolytic (new and old) that I have tested with the Fluke measure
at 4-5 megohms resistance... I don't know if this is correct/usual -- again,
the thought that the measurements may easily depend on the measuring device
is 'something new under the sun' for me and something for me to remember.
>
>2) BANG! They short out and go bang like a firecracker. I've seen
>Hank refer to wax papers as "wax paper firecrackers" and I don't know if

>this is becuase they look like little firecrackers or if they act like
>one! I've never had one fail like this on me, but have read the
>stories.

This happened, to my surprise, with my DX-35 transmitter at about 2345 on New Year's Eve (1968) -- Bang! -- black corrosive goo everywhere -- you can still see the remnants inside the chassis (also says something about my social life when I was a teenager -- should have been out chasing wild women -- Ham Radio Indeed!).

>
>3) They turn into open circuits. This was new to me until several days
>ago when I found that C603, a 3 by 30 uF 300 volt electrolytic in my
>R-390A audio deck, had lost all capacitance in the A section. The Fluke
>12 read 0 uF. Upon dissection, it appeared that the lead into the goop
>in the can was corroded away completely.

This is what I would expect with 'normal' aging. But the two caps that I have found in the Hammarlund HQ-180 have doubled in capacitance (20uf -> about 50uf; 40uf -> about 90uf I think). I have never seen this phenomenon before...

<snip>

>Thanks and 73,
>Ben

Regards to all...

Jack, KC0LR (Friend to all things Hammarlund) -- Happy Inauguration Day...

```
---------------------------------------------------------------------
Jack Harper                              Bank Systems 2000, Inc.
e-mail: jharper@bs2000.com               350 Indiana Street, Suite 800
voice:  303-277-1892 fax: 303-277-1785   Golden, Colorado 80401 USA

                "21st Century Financial Applications"
        Optical Cards for Bank, EBT, and Medical Applications
Visit our Web Page: http://www.bs2000.com/talos (Last Update: 960926)

      1024-bit PGP crypto key with ID: 8FB07075 created 960728
    Fingerprint: 75 DA 06 35 F8 3D AC EC 3A F2 7C 59 A1 11 A5 74
      Key available from Public Key Servers and above Web Page
---------------------------------------------------------------------
```

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: bdhall@ghg.net (Benjamin D. Hall)

Subject: Re: Electrolytic Cap Failure Modes?
Message-ID: <32E58932.36F9@GHG.net>

Jack Harper wrote:

Hi Jack and list...

> Thank's Ben for the reply...

I try to help when I can...

> It appears to be 'right on' with this Fluke '79' --- remarkably so
> in fact -- new 33uf caps (from Nichicon courtesy of DigiKey) read
> 33.2uf or so.

I scratched my goatee and went, hmmm, and graber my Fluke 12 manual. According to the manual, accuracy is +/- 1.9% of the reading for up to 1000uF, and brand new 33uF caps were within that 1.9% error band. For some reason, I thought it had about a 10% accuracy all the time like when it is in the 10000uF range. I stand corrected!

> Their resistance (of the new electrolytics) read about 5 meg-ohms
> (had not considered the idea that they would measure different
> resistances with different instruments due to different test
> voltages -- interesting -- which implies the possibility that
> at operating voltages they may have very low/high resistances -- is
> this true?). On the Fluke, smaller new caps (.01uf disc ceramic)
> read .011 etc... I think the Fluke is ok although I am
> amazed at the accuracy of modern capacitors.

>From what I understand, different meters use different voltages to measure resistance. Also, the same meter will use different voltages on different ranges. Or, if you so desire, you can substitute current for voltage above since V=IR. As a practical example, my HP 412A VTVM gives significantly higher cap ohms readings than does my Fluke 12 DMM. The reason is that the HP VTVM puts out more current, and can give the capacitor a better charge. As the capacitor gets closer to a full charge, it starts drawing less current and gives a higher resistance reading. Also, if you start with the HP VTVM on the high ohms range, X100 megohms, the cap just won't charge and it will sit on say 6 megohms. However, if I start taking reading in the X10K ohms range where the current is higher and work my way up to the X100 megohms range, switching to the higher range when I hit near full scale, the same cap will measure say 20 or 30 megohms. The Fluke 12 will say the same cap has a resistance of 4, 5 or 6 megohms like your Fluke 79 does. (I deleted that part of your reply for brevity) So, to make a long story a little shorter, I'll use my Fluke 12 for fast measurements looking for bad caps, but if I'm looking for leakage, I trust the HP.

And like you say, a cap that tests okay at VTVM or DMM measurement voltages, may have problems and have low resistance at B+ voltages. And in fact, Stan Griffith's has a neat way of checking caps using a Tek scope, that I cannot seem to find right now. I'll have to defer to him to post his method. Like many other measurements, cap testing is a bit of an art form...

> I have only had the Fluke a few days (it is at home) and don't
> remember the stated accuracy of the thing (typical!) -- but, I
> THINK it is something like 2% or some such... I did check the
> specs and recall being a bit surprised at the 'tightness'. (have
> to check tonight).

My Fluke 12 is 1.9%, and I know that the Fluke 12 is a lower priced instrument than the 79. As an interesting aside, we fly Fluke 79's on the space shuttle...

{A decrease in capacitance} > is what I would expect with 'normal'
> aging. But the two caps that I have found in the Hammarlund HQ-180
> have doubled in capacitance (20uf -> about 50uf; 40uf -> about 90uf
> think). I have never seen this phenomenon before...

Well, Hank and others have commented that +100% was not an unreasonable upper tolerance for electrolytic cap manufacturing in those days, and so maybe these were +150% tolerance caps? I don't think that there is anything wrong with them personally...

Anyways, interesting discussion! It is always nice to see everyone's comments...

Thanks and 73,
Ben
--

```
-------------------------------------------------------------------
 From the computer of            | Collector of fine firebottle
 Benjamin D. Hall, Houston Texas | equipment, as well as other things
 BDHall@GHG.net (home) -or-      | involving Earth, Air, Water, and
 Benjamin.D.Hall1@JSC.NASA.gov   | Fire.
------------------------------------------------------------------
```

PLEASE NOTE MY NEW HOME E-MAIL ADDRESS above. My old address, BDHALL@GHGCorp.com, will still work for a period of time however.

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: vancleef@netcom.com (Henry van Cleef)

Subject: Ford in Ontario
Message-ID: <199701211829.LAA27561@netcom5.netcom.com>

I sent an E-mail to Ford a while back on some equipment they had, and haven't heard peek-a-boo from them. Tried calling---no answer. Number I have for them is 613-283-5195.

What hours are these folks there? Is there some sort of Can. holiday this week we provincials in the hinterlands should know about?

I'm sort of surprised at "no response at all", given the $$$ in my query.

Any ideas what the deal is?
--
==
Hank van Cleef
E-mail vancleef@netcom.com or vancleef@tmn.com
==

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: dr.electron@juno.com
Subject: RE: FROSTED
Message-ID: <19970120.225132.7703.0.dr.electron@juno.com>

HI,BEN !
Hat sounds like a great idea. Just don't forget to check for X - RAY emissions before donning it ! RICH P / Frosted Flake

---

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: bdhall@ghg.net (Benjamin D. Hall)
Subject: Re: Frostfest Fun
Message-ID: <32E41AB5.21DE@GHG.net>

Paul Bernhardt wrote:

> I also promote this idea. I suggest orange-red "cathode glow" name tags. I didn't even get to meet Nick England because he was not at his table when I stopped by. Also, instead of a noon gathering, how about a 10 AM gathering because all of the BA list members will surely get to the hamfests early for the best deals.

Great idea! But, I think there is a better idea:

I'm thinking of taking a ball-cap, addiding an octal socket to the top,

and plugging in a dud 5U4 or 80 or <insert tranmitting tube here>.
Maybe I could wear a gel cell battery and light the filament? Hhhmmmnn,
maybe this is a good project for that dud 811 I've got banging around.
That way people will know I'm into BA's and that I'm crazy. But most of
you already knew that...

"Hey Bob, look at that dork over there drooling over that WRR-2 with the
811 on his head..."
"Gosh, what a wierdo..."

Looks like it is time for my Prozac. Hey, which one of you hid my
Prozac!

73,
Ben
--

```
----------------------------------------------------------------------
 From the computer of            | Collector of fine firebottle
 Benjamin D. Hall, Houston Texas | equipment, as well as other things
 BDHall@GHG.net (home) -or-      | involving Earth, Air, Water, and
 Benjamin.D.Hall1@JSC.NASA.gov   | Fire.
---------------------------------------------------------------------
```

PLEASE NOTE MY NEW HOME E-MAIL ADDRESS above. My old address,
BDHALL@GHGCorp.com, will still work for a period of time however.

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Richard Post <POST@ouvaxa.cats.ohiou.edu>
Subject: Re: Frostfest Fun
Message-ID: <A4848ZWREOZ22K*/R=OUVAXA/R=A1/U=POST/@MHS>

Ben suggested:

>I'm thinking of taking a ball-cap, addiding an octal socket to the top,
>and plugging in a dud 5U4 or 80 or <insert tranmitting tube here>.
>Maybe I could wear a gel cell battery and light the filament? Hhhmmmnn,

Gyro Gearloose's Thinking Cap?

I got the most attention carrying an R-390 through the flea market in
Dayton. (It DOES have handles.) Of course nobody got in my way!

Rich KB8TAD

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997

From: Karan Lee Carruth <klccarru@tenet.edu>
Subject: FS: Books
Message-ID: <Pine.OSF.3.91.970121110831.5276A-100000@francis.tenet.edu>

All prices include book-rate shipping anywhere in the US where the ordinary rate applies. Overseas orders must include sufficient postage. I will hold books for ten days if you E-Mail me with a request. All books are used, may have inscriptions and may have torn or missing dust jackets but are in good or better condition.

I also have a list of World War II books and a list of Aerospace books.
E-mail me privately if interested.

Lenox Carruth, WA5OVG
10135 Ferndale Road
Dallas, TX 75238-1613

klccarru@tenet.edu

Allied Radio Corporation, "A Dictionary of Electronic Terms," 1959. Pamphlet. Great collector's item! $5.00

American Television Institute of Technology, "Television Manual," 1948. Explains all of the early television. $10.00

Coyne Electrical and Radio School, "Latest Instruments for Servicing Radio-Television", 1952. $10.00

Coyne Electrical and Radio School, "Practical Television Servicing and Trouble Shooting Manual," 1953. $10.00

Coyne Electrical and Radio School, "Radio and Television Circuits," 1953. $10.00

Coyne Electrical and Radio School, "Television Servicing Cyclopedia," 1955. $10.00

The above four books as a set - $30.00

"CQ Magazine," May, 1960. $1.00

Evenson, R.C. and Beach, O.R., "Surplus Radio Conversion Manual, Volume No. 1," Second Edition, 1948. $7.50

Evenson, R.C. and Beach, O.R., "Surplus Radio Conversion Manual, Volume No. 2," 1948. $7.50

Evenson, R.C. and Beach, O.R., "Surplus Radio Conversion Manual, Volume No. 1," Third Edition, 1960. $7.50

"Instruction Book for A.R.C. Type 12 Equipment with UHF Supplement," 1955. $5.00

Marcus, Abraham, "Radio Servicing: Theory and Practice," 1948.

$10.00

Marcus, Abraham and Marcus, William, "Elements of Radio," 1948. $10.00

NAVPERS 10086, "Basic Electricity," 1956. Softcover. $7.50

NAVPERS 10087, "Basic Electronics," 1955. Softcover. $10.00

The above two books as a set - $15.00

Nilson, Arthur R. and Hornung, J.L., "Radio Operating Questions and Answers," 1948. $7.50

"Reference Data for Radio Engineers," 3rd Edition, 1949. $15.00

Rider, John F., "Automatic Frequency Control Systems," 1937. $7.50

Slurzberg, Morris and Osterheld, William, "Essentials of Electricity for Radio and Television," 1950. Cover frayed. $10.00

Texas Instruments Electronics Series - Have five books of this series.
E-mail me privately if interested.

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>
Subject: Fwd: An explanation Re: Dow Keys
Message-ID: <9701212221.aa15321@jackatak.theporch.com>

Gang-

Normally I wouldn't do this in this manner, but I am kinda behind the eight ball with work and running short, and evidently someone posted a message from this chap *without* his permission, and eveidently some of ya'll jumped on the guy and didn't exactly reflect well on the BoatAnchors list...

How about everyone just relax, sit back, take a few deep breaths, and let's try again to:

1) get permission before a repost is made to the list;

2) act in a gentle and humane manner when a list post diverts your
   attention out into the world;

Here is why:

```
-------------------8><------snip here------------------------
>From ix.netcom.com!kc5egg Tue Jan 21 18:41:16 1997
From boatanchors@theporch.com  Tue Jan 21 23:39:42 1997
From: Conard Murray <ws4s@InfoAve.Net>
Subject: fwd: RME Preamp for sale
Message-ID: <2.2.32.19970122022536.009e69b0@infoave.net>

I am forwarding this for Clayton .... please reply to him, not me.
Thanks,
Conard
>----
>Hello all, I hope this makes the list as I don't subscribe.  I was told to
>post this here for sale.  I'm the one that wrote the message yesterday to
>the newsgroup that I planned to gut this thing and use it for a QRP
>project.
>
>I have received quite a number of messages about this.  First I like to
>say to those that seemed to think I had no sympathy toward it's historical
>appeal.   If that were true, it would be laying in pieces on my workbench
>now and you would never have heard about it at all!
>
>So, as I'm not in the hobby of preserving rigs and assessories of the past
>and you guys are.  I offer it up for sale.  Several years ago I used it
>and it worked with my DX-160 SW receiver.  I just plugged it in and all
>the tubes lit so I assume it still works.  I would say it is in good to
>excellent condition.  There is a small minor scratch on the top.  I'm told
>these are worth about $50.00
>
>Bids will be taken until this Friday so if there is a digest on this list
>everyone gets a  shoot.  Please send your bid to the email address below
>and not the list.
>
>Thank you for your time and consideration.  I really would like to see
>this go to caring hands since it appears to have historical meaning.
>----
>73 de KA0GKC Claton Cadmus
>E-mail  cla@spacestar.net
>ARRL, QRP-ARCI, NorCal, ARCC, MNQRP Society
>
```

```
>
.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.
. Conard Murray  WS4S    Glowbugs listowner .
.  217 Dyer Avenue        ws4s@infoave.net  .
.   Cookeville, TN  38501  615-526-4093     .
.    <><  Wise men still seek Him  <><      .
.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.-.



From boatanchors@theporch.com  Tue Jan 21 14:54:12 1997
From: Nathalie Guibert <nguibert@mail.accent.net>
Subject: German WW2 Radar
Message-ID: <1.5.4.16.19970121145051.1dff28ee@mail.accent.net>

>Date: Tue, 21 Jan 1997 13:50:35
>To: boatanchers@theporch.com
>From: Nathalie Guibert <nguibert@mail.accent.net>
>Subject: German WW2 Radar
>
>        Two other books on the subject are:
>        Die deutschen Funk-Navigation und Funk Fuhrungsverfarren
>        bis 1945 by Fritz Trenkle (Motorbuch Verlag ).
>
>        Counfound And Destroy by Martin Streetly.
>
>        Anybody interested in Freya manuals in mint conditons,
>        installation, schematics etc.?
>
>        Andre Guibert, Acres of Boatanchors.
>
>



From boatanchors@theporch.com  Tue Jan 21 19:35:31 1997
From: john <johnmb@ral.mindspring.com>
Subject: GoJo Good Stuff!
Message-ID: <1.5.4.16.19970121201658.3237b2fc@pop.ral.mindspring.com>


>Don Merz said:
>>Several messages lately asked which cleaner is best for boatanchors or
>>boatanchors chassis. This is repetitive, but my answer is the same as last
>>year--GoJo Hand Cleaner.
>
>        I'll second this recommendation! I use a cut off bristle paintbrush
>        to work this goop in, then remove it with a towel. As Don said,
>        this is great, and benign stuff.  From wrinkle finishes to chassis
>        this stuff works well.
>
>        As always, although I've used it on lots of things with no problems,
>        try it on an unobtrusive area of whatever you're working on
>        just in case....
>
>        Best 73
>        /john
>+-----------------------------------------------------------------------------
>John Brewer                AMI# 24              WB5OAU/4
>BA Web Page==> http://www.mindspring.com/~johnmb
>+-----------------------------------------------------------------------------
```

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: don merz <71333.144@CompuServe.COM>
Subject: GoJo Rides Again
Message-ID: <970121184418_71333.144_DHB52-4@CompuServe.COM>

Several messages lately asked which cleaner is best for boatanchors or boatanchors chassis. This is repetitive, but my answer is the same as last year--GoJo Hand Cleaner. This stuff is non-toxic, won't remove anything you don't want removed and cleans deep. I apply it with a scrub brush or tooth brush, wait a couple minutes, then overscrub again with a small amount of water. Then a wet rag and a dry rag finished it off. Sometimes this process takes 2 applications to get all the dirt. But it is fabulous on dirt, grease and smoke stains. Try it once on any black wrinkle item and you'll know what you've been missing.
73, Don

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Rudy Salomon <rhs@pacbell.net>
Subject: GRC-9
Message-ID: <32E4E739.6643@pacbell.net>

Any opinions as to what a a GRC-9 in like new condition (transmitter, receiver, cover & power plug and original manual(no power supply or anything else)) might be worth these days?

73 de Rudy Salomon - KD6NRQ

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: "Andy Howard, WA4KCY" <102452.362@compuserve.com>
Subject: Re: Hall of Shame
Message-ID: <199701212119_MC1-FA1-21EF@compuserve.com>

Hello to all,

My good friend Bill Wilson commented on the "Hall of Shame" which made reference to the SX-101A. I must concur with some of his observations concerning Hallicrafters sets. First of all, the SX-101A is a good set. While not in the catagory with the 75A4 it is still respectable and has the 75A4 beat hands down in looks.

If one really wants to see Hallicrafters in their finest hour try and SX-115. This I believe to be Bill Halligan's best. While it does not exhibit the linearity of the A4 it is adequate, has quarter inch kc. increments and is every bit as sensitive as the 74A4. The noise floor is also very good. I have them side by side and often switch between the two when conditions are poor on 75 meter AM. Cannot really tell much difference between the two all things considered. Price wise it was a much better buy than its Collins counterparts.

My all time favorite receiver of any make is the SX-73. While not calibrated as well as the previous receivers, the combination of looks, audio quality and sensitivity make this one a real "sleeper". The reason for the lack of accolades for this fine receiver is that most have never even seen one.

Ah, Hallicrafters. What other maker of receivers has a 1954 model that will bring $2500.I refer to the SX-88. Its value alone make it one of the all-time great receivers. That is if you are fortunate enough to own one. I am.

The previous statement is only based on my observations and not on any scientific study. Bill and I both just happen to like Hallicrafters and in my humble opinion with good reason. To say that Hallicrafters receivers belong in the Hall of Shame is not only irresponsible but I believe, inaccurate.

Regards to all,

~~~~~~

Andrew E. (Andy) Howard, Sr., WA4KCY
105 Sweet Bay Lane
Carrollton, Georgia 30116-8519
Telephone 770-832-0202
~~~~~~

Southeastern Division Director, AM International
sweetbay@compuserve.com
wa4kcy@usa.net   wa4kcy@juno.com
Vintage Radio Home Page Address:
http://ourworld.compuserve.com/homepages/sweetbay
<><
~~~~~~
"Our Constitution was made for a moral and religious people.
It is wholly inadequate for the government of any other."
John Adams-1798
~~~~~~

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: billo@nti.net (Bill Wilson)
Subject: Hall of Shame?
Message-ID: <19970122005032621.AAA106@LOCALNAME>

The SX-101A in the hall of shame? Well if performance is the item to judge the old horse better dump all those old Nationals into the Hall of Shame too...Me, I like BA's that look like BA's...That old 183D? Deaf as a post but what it (and all of the other good looking rigs) lacks in performance it makes up in the way it looks and feels...

I've noticed that there are alot of folks on the list who don't care for Hallicrafters because of their lack of gain or whatever...But they are all fine sets, some better than others, just don't throw the baby out with the bathwater, besides my SX-73 will make most Collins/Drakes run for the hills.

Just my .04 worth,

Bill
AC4LC

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
Subject: Re: Hall of Shame?
Message-ID: <v03007809af0b0f685f4d@[134.53.65.12]>

>
>>   I've noticed that there are alot of folks on the list who don't care for
\>>Hallicrafters because of their lack of gain or whatever..
\>>Just my .04 worth,
>>
\>>Bill
\>>AC4LC
>

Really? That's not been my experience, though I certainly haven't sampled all that many Hallicrafters. I've checked out my S-20R, SX-101, SX-115 and SX-117 very carefully, and they all have scads of gain -- even the old S-20R. In fact, if I had to fault most of the receivers, it would be that they had too much gain. The only receiver of the group in which the gain distribution seems approximately right to me is the SX-115. It has a nice quiet sound (in part due to its slick AGC), at no sacrifice of sensitivity. Except for the dial readout, it may be the best BA receiver I've ever used.

I think many of our favorite BA receivers suffered from being too "hot.." Both of my national receivers (NC-155 and NC-303), my RME-6900, and my Hammarlund HQ-180AC have a noisy, choppy feel to them (in contrast to modern rigs), that I attribute to excessive IF gain and short AGC time constants. I think the 75A4 distribution was fine, as was the 75-S series of receivers, although I think the 51S-1 and KWM-1, KWM-2 had too much IF gain - even with the gain adjustment pot set as per factory specs. (Many hams, of course, just crank the pot wide open, thus destroying the receiver AGC response.)

I think the fashion changed in the early seventies, when people started taking sensitivity for granted but became increasingly concerned with dynamic range and strong-signal handling capability.   I believe Squires-Sanders was the first manufacturer to address this problem, though it was picked up early on by Ulrich Rhodes in some of his articles in QST. Today, manufacturers hardly even mention sensitivity, but tout the 3rd order intercept point as the primary selling point. In the "olden days," it was sensitivity that counted, and mucho gain gave the illusion of sensitivity. (But only the illusion. A "hot" receiver is not the same thing as a sensitive receiver, of course, a point lost on many users of the period.)

Jim W8ZR

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: JOHN_SEHRING.parti@ecunet.org
Subject: HALLI SX-101 & -101A FREQ COVERAGE
Message-ID: <9701212141.aa20375@pcusa01.ecunet.org>

The Halli SX-101 and SX-101A both shared a 6-position bandswitch, so it's got to cover six frequency ranges.

On the -101 (Mk I & II version), that gave 160, 80, 40, 20, 15 & 11-10. Note that the last gave coverage of both 11 & 10 meters on one scale.

On the -101A, that gave 80, 40, 20, 15, 10 & 30-34 MHz. Note two things:

1) 11 meters was removed, 10 meter converage only (gives much needed bandspread for SSB tuning);

2) The 30-34 MHz band is for use with outboard VHF converters.

The -101A also added a 6BY6 product detector (essential for full-AGC SSB & CW), better AGC for SSB/CW (slow AGC decay option & derived from a point of greater selectivity), & improved 1st mixer circuit using a 6BY6, plus some other detail changes.

My -101A does 160 m courtesy of a set of 160 m coils from a junker -101. Before the purists howl, this is a drop-in mod, easily reversible. The 160m coils replace the (useless to me) 30-34 MHz coils.

-John Sehring (01/21/97 2:25 pm ET @Midlothian, VA) ucc wb2eqg

---

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: kenc@smartdocs.com (Ken Corwin)
Subject: Hallicrafters S-38
Message-ID: <199701220238.SAA07160@warp10.smartlink.net>

Hello, Hank-

When do you plan to finish the blow-by-blow of the restoration of your S-38?

(Also, with reference to your recent dissertation on sphygmomanometer methodology, don't give up your day job.)

Regards,

Ken Corwin (kenc@smartdocs.com) Santa Clarita, Calif.

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: vancleef@netcom.com (Henry van Cleef)
Subject: Re: Hallicrafters S-38
Message-ID: <199701220251.TAA06560@netcom7.netcom.com>

As Ken Corwin discourses
>
> Hello, Hank-

>
> When do you plan to finish the blow-by-blow of the restoration of your S-38?
>
The S-38 reposeth. A care package from Mouser arrived yesterday including two large packages of power cords, on of which will be attached to the S-38. Also the small matter of a 35Z5 and 12SQ7 to replace those with too many ohms between the heater pins, plus a 35L6 to replace the installed 50L6. It's wired up, ready to plug-n-play.

> (Also, with reference to your recent dissertation on sphygmomanometer
> methodology, don't give up your day job.)
>
So? You want to try to describe one of these and how it works for the group? Be my guest. It's a free country. At least I know that a sphygmomanometer isn't a manifold pressure gauge off a WWII German airplane.

This afternoon's great coup at work was of the nature (as my boss put it) of "why tie up our money when we can use theirs" as I ambled back to my office with a large box full of new HP treasures that I wheedled out of somebody else.
--
===
Hank van Cleef
E-mail vancleef@netcom.com or vancleef@tmn.com
===

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Robert Nickels <ranickel@mwci.net>
Subject: Harvey Wells R9A
Message-ID: <32E426DD.36B3@mwci.net>

Well I made a purchase from the $urplus $ales museum...a Harvey Wells R9A receiver that I'd been looking for for several years. I didn't realize that "as-is" meant "missing power transformer and extra holes in the front panel", but it is repairable and for $50, the bargain of the list from what I could see...

I'd sure like to get a manual copy if anyone has one. Glad to pay expenses or swap Hallicrafters manual copy - thanks.

73, Bob W9RAN

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997

From: dma@IslandNet.com
Subject: Re: HELP with ancient tv
Message-ID: <1.5.4.32.19970121183252.007005a0@pop.IslandNet.com>

Hi again Joe ...

A couple of things I forgot ... as someone else mentioned, drawing an arc is one way we used to check for CRT HV - but I'd be cautious about stressing the old flyback! The resistor on a stick I mentioned: it's actually a string of resistors - a single 1/2w carbon resistor can quickly form an arc path. So remember the voltage breakdown of these things, and choose accordingly. OTOH the hair on the arm test is good, and the sort of rushing, crackling sound that TV CRTs make when the HV comes up.

I started off by suggesting the flyback becuz they were so troublesome. But as it is the most difficult component in your set (except for the CRT and yoke) to find a replacement for, I sure would check it out carefully before starting the hunt for one. You should be able to determine in what way it has failed, and you should be very suspicious of the under-chassis components - especially the paper caps. They used to virtually melt from the heat, and heat damage of resistors was also a problem, although usually more subtle than what you're looking at. BTW, the audio side of the set should work. If it does, you've automatically checked out a big chunk of the circuitry. If not, you may have a problem quite different from what it now seems.

Let us all know how it turns out. I'd love to have a set like the one you've got, so maybe I can enjoy it vicariously!

Jan

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Mike Sullivan <michaels@kc2kj.k2nesoft.com>
Subject: Re: HELP with ancient tv -Reply
Message-ID: <32E3D2A0.59264E37@kc2kj.k2nesoft.com>

Joe Serocki wrote:
>
> Thanks. I will try the HV probe idea.
>
> Absolutely no picture, or dot, of any form. Looks like HV out to me. Not
> really comfy poking around back there, but I guess I can be careful
>
> Any ideas where I can scare up a speaker for this, to at least check out
...
Joe,

When I was young (nopt all that long ago), I listened for the 15kHz sound produced by the horizontal flyback. My ears are not as good now (46 years old), but I can still hear it if I turn my head just right. Another good indication is the sound of all the dust going to full attention as the HV starts. Hard to describe, but the TV repair guys know the sound well. Another trick (not recommended but used many times) is to draw an arc off the HV rectifier anode (at the output of the flyback) with an INSULATED screwdriver. A bw set should draw about .5 inch arc or so. DO NOT USE ON A COLOR SET! Also, to check out the horizontal output tube (that drives the flyback transformer) try drawing an arc from its plate. Should draw about .25 inch or so.

Of course, the presence of LV (about 250 -300 volts depending upon the chassis) can also be verified by hearing sound out of the speaker, noise from the volume control, hum, etc. However, real measurements and a schematic are needed for much more troubleshooting. Look for concealed fuses (another common problem) and of course tubes that are not showing glowing filaments. Becareful of strange series/parallel filament wiring in pulling tubes out...
Mike
kc2kj

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Joe Serocki <JSEROCKI@allstate.com>
Subject: Re: HELP with ancient tv -Reply -Reply
Message-ID: <s2e46d85.065@allstate.com>

Thanks for the info. I have no HV in the flyback, at least indicated by no snap/crackle/pop or other noises or any sort of HV attraction to the hairs on my arm (a technical test I know, dont give me any grief), so I assume that this is a good place to start. I have an offer from a fellow ba'er to get the service manual, so I will have to start there. The HV tubes, as all the rest, check ok, so the flyback is suspect. Will have to hunt for a replacement, and still gotta find some sort of speaker.

thanks for the help

>>> Mike Sullivan <michaels@kc2kj.k2nesoft.com> 01/20/97 02:16pm >>>
Joe Serocki wrote:
>
> Thanks. I will try the HV probe idea.
>
> Absolutely no picture, or dot, of any form. Looks like HV out to me. Not
> really comfy poking around back there, but I guess I can be careful
>
> Any ideas where I can scare up a speaker for this, to at least check

out
...
Joe,
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sound produced by the horizontal flyback. My ears are not as good now
(46 years old), but I can still hear it if I turn my head just right.
Another good indication is the sound of all the dust going to full
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concealed
fuses (another common problem) and of course tubes that are not
showing
glowing filaments. Becareful of strange series/parallel filament wiring
in pulling tubes out...
Mike
kc2kj

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Richard Post <POST@ouvaxa.cats.ohiou.edu>
Subject: Re: HELP with ancient tv -Reply -Reply
Message-ID: <A4818ZWREP3CK0*/R=OUVAXA/R=A1/U=POST/@MHS>

>The HV tubes, as all the rest, check ok, so the flyback is suspect.

Lots of flybacks were replaced on suspicion, not always because it was
necessary. You've already checked for an open flyback with a simple
continuity check, right?

Think of the horizontal section as a 15,750Hz transmitter with an
oscillator and an RF out. First thing to check is whether the oscillator
is running and close to frequency. Use your scope to check the input grid
on the Horizontal Output tube. There should be a fairly hefty horizontal
freq signal. If not, check the oscillator circuit. The problems are
likely to be leaky caps, just like we usually find in other BA's. Some

older all-in-one TV testers have a substitute grid drive output signal.

There is an Eico flyback checker, model 944 I believe, that is essentially (correct me if I am wrong, folks) a grid dip oscillator circuit resonant for about 40 to 45 KHz. One shorted turn in the flyback/yoke circuit will show up very quickly. Connection is made to the horiz out tube plate lead and the hi-volt rectifier (1B3 or similar) plate cap. Circuit is obviously NOT Powered during this test. (Unplug TV and discharge all capacitors, including the PIX tube hi-volt connection before poking in here.)

I can think of no reason why an oscillator at that frequency and a scope can't be used to roughly check Q and ringing of an unpowered flyback circuit. Compare to a known good tube-type flyback. Remove hi-volt rectifier during tests as its filament circuit represents a shorted turn or two.

If you have a source for old Radio-Electronics from the 60's, look up some of the Jack Darr columns. His columns will teach you how this circuit works as well as items to check. A shorted B+ boost cap could bring this circuit down. His usual advice, if a shorted flyback is suspected, is to shed loads until the short goes away. If all loads are disconnected and the short remains, your problem is identified.

BTW, an easy check for an operating horizontal stage is with an NE-2 or other small neon bulb. As a teenager, I taped one to the end of a wooden yardstick and held it next to the flyback. It would light up dimly with no connection whatsoever, just RF. Try it on a working tube set to see the effect.

My first TV set was given to me because a professional said the PIX tube was dead (filament did not light). Turned out to be a bad solder joint on the filament pin.

As on any BA's, check for any continuity between the AC plug and the chassis. If there is a connection, use an isolation transformer.

Best piece of test equipment is the "well-calibrated eyeball" (tm Jack Darr)

Rich   KB8TAD   <rpost1@ohiou.edu>

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Thomas Bowes <bowes@klondyke.net>
Subject: Help: Dynamotor

Message-ID: <32E4D5C2.7F84@klondyke.net>

At long last I have found a DM-28 dynamotor for my BC-348. The only problem is that the Dynamotor is a DM-28-L, and the one I really wanted is the DM-28-Q. Can anybody in the BA group tell me whether or not I can use the "L" model dynamotor in my BC-348Q?

Looking at the schematics for the various 348's, I can't see a significant difference in the wiring of the dynamotors, other than the fact that the ones for the "Q" series have 2 filter chokes and fewer caps to ground. The others have more caps and only one choke. Any thoughts on how this might effect the operation of the rig? I don't want to plug in the dyno and have an otherwise great BC-348 go up in smoke!

--
"Tom"

Thomas Bowes
KK8M
35332 Churchill
Richmond, Michigan 48062-1179

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: "Allan Fritsche" <fritsche@msn.com>
Subject: New 2nd edition Osterman book
Message-ID: <UPMAIL03.199701212245120485@msn.com>

Hi Gang, got the book today and it seems to be excellent. I am sure there will be some errors on the variants, like the recent thread SX-101, mk1,mkII, etc. But all in all it looks pretty good to me.

As far as pricing guidelines, I think he might be close, but Iam not sure about his scarcity label.

My little National NC-60 was rated as scarce, and also a lot of the other cheaper national sets. So be it, the book is great for the money.

Now that I know that the little NC-60 is scarce, I would like to sell it to anybody for about 30,000 dollars American .
Hey , got to buy my wife a new car soon.

Your Friend Al
fritsche@msn.com

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Bob Duckworth <WB4MNF@atl.org>
Subject: O.K. Hallicrafters fans, What's an SA36?
Message-ID: <01BC0716.3CA65560@office>

SA36, not S36. Supposed to be VHF/UHF. I've not seen it yet as it is a last minute addition to a couple of HF Hallicrafter's bits that are soon to board the bus to Atlanta.

Also, no response to my free BC625A sans power tubes which will gain some entropy on it's way to the parts boxes if no takers by Friday. Earlier message was titled FREEBARD as in free BA Radio Debris.

-bob
wb4mnf@atl.org

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Bob Duckworth <WB4MNF@atl.org>
Subject: re: old ham radio do-hickey from auction web
Message-ID: <01BC07BA.3799A960@office>

I was curious about this and ended up swapping a Lotus signal RX for it. Basically a junk for junk swap, the best kind.

If anyone else was curious and wants to know,

It's a homebrew link coupled (balanced to unbalanced) 'antenna' tuner. Also has provision to configure as a Pi or L net for long wire. It is smaller than it appeared in the pix being about the size of a BC348. Looks to be good for about 100W.

Coils are homebrew jack bar style using drilled perspex 'sticks' to act as forms for the plain old copper wire coils and a 'softer' black plastic for the plug and jack bars. A funky (and no doubt much less expensive) version of the store bought coils.

Has a surplus directional coupler of some kind and a pickup to measure RF current with two meters. The larger meter is from something called a 'Silver model 908 micromatch' the small (antenna current) is x mil from who knows what.

If Linda lets me use her van, I'll drag it to the Kennesaw hamfest along with some other HB BA stuff that most folks would have put out with the trash. I keep this stuff cause it looks like what I build and it's fun to make it work. Eventually I'll run across or build a BA HB RX and get a 100% radio debris station on the air.

-bob

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: midshires@cix.compulink.co.uk (Andrew Emmerson)
Subject: Old trade names abbreviated
Message-ID: <memo.553366@cix.compulink.co.uk>

>American Phenolic Co. which became Amphenol so long ago no one remembers their original name.

A bit like AMP (makers of crimp connectors, etc.) = Aero and Marine Products.

73, Andy.

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: dr.electron@juno.com
Subject: RE: OLD TV
Message-ID: <19970120.225132.7703.1.dr.electron@juno.com>

HEY JOE
Why not try putting an AM transistor radio near it ? All hell usually breaks loose,
and you can adjust controls & hear a change if working. (?)

Rich P, 73s

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: dr.electron@juno.com
Subject: RE: P3C RADIO RAPID OXIDATION
Message-ID: <19970120.232226.7703.4.dr.electron@juno.com>

COULD IT BE THIS RIG WAS BUILT BY THE SAME OUTFIT WHO MADE
THE ELECTRIC COFFEEMAKERS FOR THE GRUMMAN C2/E2 ? YOU KNOW WHAT I MEAN.
"SMOKE 'EM IF YOU'VE GOT 'EM !
RICH

#   #   #

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Avery Comarow <acomarow@usnews.com>
Subject: Parts needed
Message-ID: <2.2.16.19970121154605.384ff552@pop3.usnews.com>

For a bunch of projects hanging fire, I'm looking for:

--A junker Sprague TO-4 Tel-O-Myke or the power transformer from same.

--An RCA 50KV HV probe to match a Senior VoltOhmist. I'll swap a brand new 30KV Hickok probe, with original box. Both probes have the single ended Amphenol mic connector.

--For my Ranger, I need seven front knobs (all *except* VFO, buffer, final, bandswitch and crystals). Also a pair of 1614 modulator outputs.

I just know the BA gang will come through...

(And I'm still waiting on that perfect NC-303!)

Avery W4OGK

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Surplus Al <surplsal@tl.infi.net>
Subject: Re: Parts needed
Message-ID: <32E521FE.256E@tl.infi.net>

Hi saw your posted note. What crystals are you in need of? Freq. fundamental and type of holder. 73s Surplus AL W3UGD
surplsal@tl.infi.net

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: JOHN_SEHRING.parti@ecunet.org
Subject: POWER SUPPLY DIAGNOSIS
Message-ID: <9701202003.aa12451@pcusa01.ecunet.org>

I don't like radios that lift the center tap of the B+ winding to do a Standby.

The switch can see some rather high voltage; B+ current changes from Normal to Standby so heat dissapation changes also and this can lead to oscillator drift; it frequently makes a nasty thunk when switching.

My preference is to switch the bottom end of a sensitivity pot that's tied to the RF and IF stage cathode circuits. See for example, Halli SX-100.

-John Sehring (01/20/97 2:08 pm ET @Midlothian, VA) ucc wb2eqg

---

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Ronald H Steinberg <rhstein@interaccess.com>
Subject: QUERY ON MOTOROLA MOBILE HAM STATION
Message-ID: <3.0.32.19970121081318.00bc5d94@pop.interaccess.com>

I am posting again this for Joe Schroeder, W9JUV for distribution on BA...
You can e-mail me Ronald H Steinberg, K9IKZ,rhstein@interaccess.com or contact Joe directly

QUERY ON MOTOROLA MOBILE HAM STATION, CA 1956

In the 1950s, Motorola had an amateur radio division run by Harry Harrison, W9LLX; it provided an outlet for trade-in Motorola AM gear that would otherwise be scrap. For a brief time this division put together an all-band mobile station which had a Gonset Commander transmitter. VFO and Super-Six converter all mounted on a Motorola made steel panel with controls, pilot lights, wiring harness and interconnecting cables. It was to be used with a traded-in Motorola 1620 kc police receiver (the only Motorola electronics item in the whole setup!) and dynamotor high voltage supply.

I bought one about 1955 or 1956 when I was working for Motorola but later traded it in for half of a Cessna 140 when I got my pilot's license. Since then I've never seen another until last summer, when I found one at Radiofest in Elgin.

Query: Does anyone else remember this short-lived Motorola ham product? If so, do you have any ads or other literature describing it? I have the Gonset manuals, but surely Motorola supplied some kind of user instructions and wiring diagram, and ran at least an ad or two somewhere promoting it. Motorola did advertise an FM monitor receiver in QST in 1956, but I've found no ads for this mobile thing.

73,

Joe Schroeder, W9JUV, Box 406, Glenview, IL 60025 (847) 657-6500,FAX (847)724 8831.

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----------------------------------------------------------
 Ron Steinberg   K9IKZ          rhstein@interaccess.com
                 512 S Cherry      Itasca    Il   60143
```

630 773 3583 hm   630 773 0822 hm fax

At work: rentcom@mcs.com   http://www.rentcom.com
            847 678 7000 wk   847 678 9378 wk fax

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: "Hall, Benjamin D." <bhall@GP802.jsc.nasa.gov>
Subject: R-390A meters and OP-AMPS
Message-ID: <c=US%a=Telemail%p=NASA%l=NASA/EMS/00115404@jsc-ems-gws05.JSC.NASA.GOV>

Hello R-390A fans...

A while ago I made a posting about using some VSWR meters Fair Radio was selling in my then meter-less R-390A. With the addition of a small signal diode and a dropping resistor, the meter is a workable replacement from the LINE meter.

However, the SIGNAL STRENGTH meter doesn't go beyond half scale as the meter requires more power than the real thing. Several people suggested transistors to amplify the voltage. After looking at the schematic of the meter circuit, the meter is measuring the voltage difference between two points. Well, I've been doing some thinking, and I stumbled across a circuit that uses an OP-AMP as a voltage follower/voltage multiplier (I've always liked IC's too). It has a 10 meghom input impedance, and can dissipate about .5 watts, so it will have no problem driving the meter. It will operate from +6 VDC, easily obtainable from filament power through a bridge rectifier. It requires only two resistors to set the gain, so I'll need only a few parts: op-amp chip, two resistors, bridge, and filter cap. Will fit on a nice little circuit board.

Now, the question is where to get 6 VAC filament power. Ideally, I'd like to find a tube extender that I could solder wires onto to get the power from there. I don't want to drill holes or add extra wires. But, I think those tube test adapters are really rare. Anyone got any ideas?

Thanks and 73,
Ben
--

>From the computer of Benjamin D. Hall, Shuttle Systems Training Instructor.
NASA/Johnson Space Center, Houston, Texas.
e-mail: Benjamin.D.Hall1@jsc.nasa.gov

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: Re: R-390A meters and OP-AMPS
Message-ID: <32E53185.13B0@vifp.monash.edu.au>

Hi Ben and fellow '390A fans,

> Now, the question is where to get 6 VAC filament power. Ideally, I'd
> like to find a tube extender that I could solder wires onto to get the
> power from there. I don't want to drill holes or add extra wires. But,
> I think those tube test adapters are really rare. Anyone got any ideas?

In the interests of minimising any changes to the set, why not just wrap a fine piece of wire around a tube pin and bring it out beside the tube. My product detector and panoranic adapter are both connected this way and have worked well for years. The current required by your little circuit would be low enough not to present any problems doing this.

73

Morris

```
---------------------------------------------------------------------
Morris Odell                 Victorian Institute of Forensic Medicine
Forensic Physician                  57-83 Kavanagh St, Southbank 3006
morriso@vifp.monash.edu.au                         Victoria,
Australia

Web page: http://www.vifp.monash.edu.au/CFM/staff/mo.html
---------------------------------------------------------------------
```

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: "Lon W. Cottingham" <k5jv@swweb.net>
Subject: R-390A noise limiter
Message-ID: <32E4C734.57CF@swweb.net>

Greetings to All,

The noise limiter in the R-390A has been a topic for cussing and discussing for as long as I have been working with them, approximately 30 years. With all the numerous postings on this subject, I thought I would add my comments.

Simply put, some units work better than others. This is usually traced to component variation in manufacturing and with age. Bill Kleronomos (an excellent audio engineer) tackled this subject a few years back. He published his thoughts about the noise limiter and the R-390A in general in several issues of"ELECCTRIC RADIO". His fix was a change in value of one resistor. The limiter then worked "as good or beter" than any limiter of that type that he had experience with. I cannot put my hands on the data right now but will find it and post it. Bill thought this mod was so useful that he sent the information and a resistor out with his audio mods.

In my opinion, "ELECTRIC RADIO" should be on everyone's "must read" list. It is one of the best sources of info on BA type equipment that I have found plus a wonderful classified section.

ELECTRIC RADIO
14643 County Road G
Cortez, CO 81321-9575
Editor - Barry R. Wiseman, N6CSW
Office Manager - Shirley A. Wiseman

73 de Lon, K5JV

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: "Lon W. Cottingham" <k5jv@swweb.net>
Subject: Re: R-390A noise limiter fix
Message-ID: <32E51FDE.49FD@swweb.net>

Greetings to All,

As promised earlier, here is what Bill Kleronomos had to say about the R-390A noise limiter.

Bill Kleronomos wrote:

The article is in Electric Radio #70, January 1995. I found the problem with the R-390A factory noise limiter to be excessive clipping even when all the way down: it was designed to work on CW and RTTY signals, and that it does, but it sounds "awful" when the audio section is upgraded and you can really hear the distortion products.

Solution: Lift one end of resistor R527 in the IF chassis. It's a 27K installed on Terminal board TB502. Connect a 33K in series with it to make the revised value about 60K. That's it. After this mod, you can switch on the noise limiter and just barely tell that it's running when turned all the way down, but it still effectively clips noise. As you increase the noise limiter pot's setting, the noise limiting slowly becomes more aggressive and the knob needs to be turned up about half way before the audio gets as cruddy as with the unmodified limiter turned all the way down.

Actually, now I use my noise limiter quite a bit as needed because it doesn't give me "earburn" anymore.

Nice to hear from you, Lon.

-BK

Bill Kleronomos, Chief Eng.
KBCO-AM 1190, KBCO-FM 97.3
Jacor Broadcasting of Colorado
Denver-Boulder
wkleros@csn.net

73 de Lon, K5JV

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Al Klase <alklase@prolog.net>
Subject: Re: R-390A Noise Limiters
Message-ID: <199701211358.HAA13876@uro.theporch.com>

At 07:11 PM 1/20/97 -0600, you wrote:
>Hi Ben,
>
>> However, after playing with it, Phil and I noticed
>> that the Noise Limiter didn't do much at all.
>>

All of the simple diode "ANL" circuits do the same thing, they clip off narrow noise pulses that stand proud of the average signal. These were implemented because they were effective against automotive ignition noise. On a quiet band you can quite literally hear a car with an unsupressed ignition a mile away. Today virtually all spark ignition engines have effective noise supression built in.

These circuits are not very effective against the noises we're left with now that the auto problem no longer exists.

73, Al

Al Klase - N3FRQ
alklase@prolog.net

Flemington, NJ

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Walt Novinger <waltn@earthlink.net>
Subject: Re: R-390A Noise Limiters
Message-ID: <2.2.32.19970121161043.006c40c0@mail.earthlink.net>

At 04:50 PM 1/20/97 -0600, you wrote:

> highly selective. However, after playing with it, Phil and I noticed
> that the Noise Limiter didn't do much at all.
>

My Mish-restored EAC 390A's noise limiter is one of the best I've used on any radio. As soon as the switch clicks, the NL action starts; effect ramps smoothly to audio cut-off somewhere around 7-8 on the dial. Must be something wrong with the unit you played with. BTW, I had Rick paint mine gloss-black with white letters...really neat (tho it shows dust).
Walt

```
=====================================================================
Walt Novinger                    Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment
waltn@earthlink.net                               wnovinger@shl.com
```

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Ho4bart@aol.com
Subject: Re: R-390A Noise Limiters
Message-ID: <970121144913_441830347@emout16.mail.aol.com>

In a message dated 97-01-20 20:12:33 EST, morriso@vifp.monash.edu.au (Morris Odell) writes:

<< The noise limiter in the '390A uses diode connected triodes to produce a noise clipping type of limiter. It chops the top off noise spikes (and signal peaks too, depending on the setting of the control). >>

is anyone familiar with the ARR-15 schematic, specifically the noise limiter? it has a "self adjusting " diode clipper a bit more elaborate than used in most recs with diode clipper scheme, it's called a "McMurphy Discriminator" is it not? (not remarkably more effective, nevertheless, as i remember it) .
some of the ealier comm receivers have an adjustable diode clipper.
all these circuits i have tried degrade the audio to some degree &
always unpleasant sounding. maybe the r-390 clipper is better?
i like these other terms: "hedge trimmer". or the English, "crash

limiter".   hue miller

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: "Lon W. Cottingham" <k5jv@swweb.net>
Subject: R-390A PTO adjustments
Message-ID: <32E4E6EE.133F@swweb.net>

Greetings to All,

I just ran across a posting about adjusting the linearity of a PTO. I am not sure exactly what PTO was being discussed, but thought that it was an R-390A PTO. COSMOS was mentioned. There was mention of an adjustment through the front of the PTO similar to the "end spread adjustment". This posting said that there were screws that rotated past the hole every 20, or so, Khz. Is this supposed to be a joke? That other hole on the R-390A PTO is an adjustment to the thermostat of the heater oven.   Perhaps the discussion was about some other PTO. If such a beast exists, I would pay money to see it.

There were many different manufacturers of PTO's for the R-390A. Some manufactures were traditionally thought to be better than others with Collins and Motorola being at the top of the list and Cosmos, always, at the bottom. There have been many articles written about the different types thought the years. Lately I have heard that the Cosmos units were desirable. Traditionally, off all of the different types, the "Cosmos" brand has been the least desirable. In an effort to cut costs, at least one manufacturer omitted the linearity adjustment entirely from their product. I must say that I have had very good Cosmos units and have encountered a few bad Collins units. Perhaps beauty is in the eye?

End spread adjustment is accomplished by removing a screw from the front, upper right, side of the front panel of the PTO. The end spread adjustment is easily reached though this hole. However, there is a slotted lock nut (not on all units) locking the adjustment screw. Collins provided an adjustment tool for unlocking and holding the lock nut while adjusting the end spread screw. Information about this tool was published in the 51J series manuals. This tool really makes the job easy. If the lock nut is present, it must be unlocked before any attempt to turn the end spread adjustment is made. If you do not unlock the lock nut, virtually any force on the end spread adjustment screw will damage its adjustment slot. I have ran into many PTO's with damaged end spread adjustment screws because the owner was not aware of this lock nut. Several years back, I had a few of these adjustment tools manufactured. They are all gone now except for the on that I regularly use. They are expensive. If there is enough interest to have them made in quantities of 20, or so, they could probably be made today for around

$100 each. As I said, they are expensive but, so is good PTO.

The comment in the posting that really got my attention was about linearity adjusting. The only type of linearity adjustment that I have encountered in this type of PTO's is a very complicated, internal operation consisting of a stack of adjustable cams with a double sided cam follower that follows the main lead screw. As the lead screw moves, the cam followers follow the variations in the adjustable cam stack and add to, or subtract from, the lead screw position, thus providing very slight adjustments to the lead screw position resulting in acceptable linearity across the entire PTO output.

The term PTO means permeability tuned oscillator. What does permeability tuned mean? Simply put, it means slug tuned versus capacitor tuned. In a PTO, the frequency is changed by moving a slug, made of some mystery material (perhaps ferrite), through a coil of wire. Over time the properties of this mystery material change. Thus the resultant frequency of the PTO changes. We see this as a discrepancy in displayed frequency accuracy and/or end spread.

So, once we recognize this problem, what can we do about it. One approach would be to replace the old slug with a new one with the properties of the original . I know of no way to do this. Another approach would be to somehow change the total inductance, very slightly, of the PTO coil. This works Ok for the end spread but upsets the total linearity of the unit. The original designers of these PTO's recognized this future problem. They decided to go with the inductance idea and accept the slight loss in linearity. They came up with the end spread adjustment that we all know and love. The one that requires a special $100+ tool to unlock and adjust. It is a real pain in the rear, but one that we can, and must, cope with.

The end spread adjustment is simply a few turns of wire on a very small diameter slug tuned coil form added in series with the maim PTO coil. When the permeability of the mail slug changes with age, the little slug can be adjusted (within a very small and definite range) to compensate for the aging of the main slug, but, linearity also changes. It does not change very much, but it does change. I know of no easy way to adjust it. It can be done with the proper jigs and equipment. I spent several days experimenting with this back in the early 1970's when the R-390A was still being used in the Navy/Marine MARS program. In my opinion, the result is not worth the effort. The average PTO will be within 1 Khz at any 100 Khz point throughout its entire 1 Mhz range after a very precise end spread adjustment is accomplished. That is within the original specifications for the unit. In my opinion, attempting to adjust the linearity of the PTO is not worth the risk of permanently damaging or destroying the unit.

If the end spread of your PTO has shifted so far that the end spread adjustment will no longer compensate for it, there is one last hope. If you are careful, you can remove turns, one turn at a time, from the end spread adjustment coil. For years, before all the surplus PTO's hit the marked, this was the only way to attack the problem. It is a tedious, laborious process. Again, the risk of permanent damage to the PTO is great. The more turns you remove, the more adverse effect you will notice in overall PTO linearity. In my opinion, if your PTO's end spread had changed so much that the end spread adjustment will not compensate, you have two options; one is to remove turns from the end spread adjustment coil and accept the result and loss of linearity , or two, replace the PTO with a good unit.

Fair Radio Sales is still offering "Government Overhauled" R-390A PTO's at a very reasonable price. When I read this nonsense about screws passing holes, I went out to the shop and got one of these "Government Overhauled" units from Fair just to see if I had missed something. I had not. This PTO has a seal on it saying " Overhauled TOBYHANNA Army Depot". I have installed several of these PTO's and have had no problems.
--

73 de Lon, K5JV

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: "JOSE V.GAVILA (EB5AGV)" <eb5agv@ctv.es>
Subject: Re: R-390A PTO adjustments
Message-ID: <199701212219.XAA05394@sandra.ctv.es>

Hi Lon and all BA Gang,

Well, I was the fellow who asked about that PTO. Yes, it is an R-390A Cosmos PTO and YES!, it has the one-every-25Kc adjustments (I've been playing with it this evening and, when opened the screw/cover, I saw very small screws which should be the adjustable elements. And every 25 Kc (or 90 degrees), a new screw is centered on the window... So you don't need to open this PTO to linearize it. By the way, mine is pretty good in linearity, so I have closed again the two big screws/covers and have only tweaked the PTO endpoints (I had about 4.4 Kc of error and now I have less than 0.2 Khz... Not too bad for the first time!).

The information about those adjustments was given by me (and posted to the list) by Tom, N5OFF. Anyway, if I can help with some information, I have very easy to acccess to the PTO now, so don't hesitate to ask!.

Best regards.

73 JOSE EB5AGV / EC5AAU

At 09:55 21/01/97 -0600, you wrote:
>Greetings to All,
>
>   I just ran across a posting about adjusting the linearity of a PTO. I
>am not sure exactly what PTO was being discussed, but thought that it
>was an R-390A PTO. COSMOS was mentioned. There was mention of an
>adjustment through the front of the PTO similar to the "end spread
>adjustment". This posting said that there were screws that rotated past
>the hole every 20, or so, Khz. Is this supposed to be a joke? That
>other hole on the R-390A PTO is an adjustment to the thermostat of the
>heater oven.   Perhaps the discussion was about some other PTO. If such
>a beast exists, I would pay money to see it.
>
>(snipped)
>
>73 de Lon, K5JV
>

----
  73 JOSE V. GAVILA (EB5AGV / EC5AAU)
      46910 Benetusser - Valencia
      SPAIN

 QTH locator: IM99TK

 *** PLEASE, VISIT MY HOME PAGE AT : ***
 http : //www.geocities.com/SiliconValley/6992
 e-mail: eb5agv@ctv.es & eb5agv@amsat.org

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: "Lamb, Charles E MD" <lambmd-ce@salem.ge.com>
Subject: R392 parts
Message-ID: <36F0E432012A397C@mhsgate.salem.ge.com>

Hello Anchorites!

This is my first post to the list. I also was at the Richmond Frostfest
and was able to meet several listmembers. But this post is a plea for
help on an item that I picked up there. A friend of mine who was sharing
a table, picked up an R392 (in fair condition externally) for almost
nothing and, (knowing my passions) delivered it to me proudly. It seemed

sorta light and after opening it I found out why. Half of the innards are missing! I seem to have a cleanable but meterless chassis with no audio or IF sections. The pto looks fine and it seems mechanically OK. Can anyone supply me with a junker to try to get this old war horse going? It also lacks any documentation. If not, then I will try to help someone out by offering it up to the list for parts value, but my bias is to try to restore it. The sad part is that this item was held up as a "probably" working unit to my friend. *sigh* oh well, there is one bright spot. I did pick up a tunable IF panoramic adapter which cleaned up beautifully and is electrically restored with very little work. Last purchase was a hybrid AM marine radiotelephone with sweep tube final for $5. I used to run one of these mobile and remember working W8ZO in Michigan from Richmond years ago one cold winter's night. Now for some new xtals....

Charles E. Lamb   WD4KZK
Lambmd-ce@salem.ge.com

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: bdhall@ghg.net (Benjamin D. Hall)
Subject: RADAR history
Message-ID: <32E42539.30CF@GHG.net>

>From "RADAR ELECTRONIC FUNDAMENTALS, NAVSHIPS 900,016" Bureau of Ships, Navy Department, Washington D.C., June 1944. RESTRICTED.

Along with a little stampeds note: DOWNGRADED TO UNCLASSIFIED, CODE 252 MEMO TO CODE 330c DTD, 3 DEC. 1945

4. HISTORICAL DEVELOPEMENT. One of the first observations of "radio echoes" was made in the United States in 1922 by Dr. Albert H. Taylor of the Naval Research Laboratory. Dr. Taylor observed that a ship passing between a radio transmitter and receiver reflected some of the wave back toward the transmitter. Between 1922 and 1930 further tests proved the military value of this principle for the detection of surface vessels which were hidden by smoke, fog, or darkness. Further developements were conducted with carefully guarded secrecy. During this same period Dr. Breit and Dr. Tuve, of the Carnegie Institute, published reports on the reflection of pulse transmission from electrified layers in the upper atmosphere of the earth's ceiling. This led to the application of the principle to the detection of aircraft. Other countries carried on further experiments independantly and with the utmost secrecy. By 1936, the United States Army was engaged in the development of a radar warning system for the coastal frontiers. Between 1936 and 1940, the pulse system of tranmission was further developed. By the end of 1940, mass

production of radar equipment was under way. By September 1940, the British had developed radar to such a point that they were able to being down great numbers of enemy airplanes with very little loss to themselves. Beginning in 1941, British-American cooperation in the development of radar has given the United Nations the best radar equipment in the world. However, our enemies have also made great strides in radar development. This was evidenced by the sinking of the British battle cruiser Hood by the German battleship Bismarck, by means of radar range finding, before the Hood could fire her second salvo.

So folks, when I read in between the lines it appears to me that it was developed pretty independantly by us and the Brits, and that the Germans had enough of a radar to warrant concern by the editor of this book. Of course, I'm sure being a US NAVY publication there is a bit of a bias...

73,
Ben
--

```
----------------------------------------------------------------------
 From the computer of            | Collector of fine firebottle
 Benjamin D. Hall, Houston Texas | equipment, as well as other things
 BDHall@GHG.net (home) -or-      | involving Earth, Air, Water, and
 Benjamin.D.Hall1@JSC.NASA.gov   | Fire.
---------------------------------------------------------------------
```

PLEASE NOTE MY NEW HOME E-MAIL ADDRESS above. My old address, BDHALL@GHGCorp.com, will still work for a period of time however.

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Dgnova@aol.com
Subject: radiation from receivers
Message-ID: <970121141828_646588352@emout17.mail.aol.com>

I did a quick check of the oscillator radiation from two receivers, a HRO and
an
RCA AR-77 (like the HQ-120).
At a frequency of 2 mhz neither set could be picked up at a distance of 3
feet.
At a frequency of 30 mhz both sets could be picked up at a distance of one half of a city block. The AR-77 was just going into the noise level. The HRO was fairly strong.

Philip McCoy dgnova@aol.com

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: jproc@bellglobal.com

Subject: RE: radiation from receivers
Message-ID: <Chameleon.4.01.2.970121222005.jproc@>

> The AR-77 was just going into the noise level. The HRO
>was fairly strong.

That's certainly an interesting experiment and brings something else to mind. Years ago, I heard that broadcasters collected TV ratings by sending fleets of vans into suburban neighbourhoods. The vans were equipped with a VHF RDF set and it was sensitive enough to pick up the signal from the local oscillator in the TV tuner. From this, it could be determined which channel was being viewed.

Is this really true?

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
Radio Restoration Volunteer
HMCS Haida Naval Museum
Toronto, Ontario

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: RE: radiation from receivers
Message-ID: <199701220436.WAA24944@dlep1.itg.ti.com>

At 09:26 PM 1/21/97 -0600, Jerry Proc wrote:

>Years ago, I heard that broadcasters collected TV ratings by sending fleets
>of vans into suburban neighbourhoods. The vans were equipped with a VHF RDF
>set and it was sensitive enough to pick up the signal from the local
>oscillator in the TV tuner. From this, it could be determined which channel
>was being viewed.

Can't vouch for ratings using that method, but it's plausible and due to its lack of inherent bias would likely have been more accurate than our current ratings system.

I'll offer another example of LO reradiation: I recall a magazine, probably Popular Mechanics, years ago showing a picture of a British van with VHF RDF cruising neighborhoods searching for TV's in order to levy a TV tax on the owners.

Regards,
Bill Sorsby, N5BU
Regards,
Bill Sorsby, N5BU   bill.sorsby@dlep1.itg.ti.com
Grapevine, TX 76051

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Ho4bart@aol.com
Subject: Re: radiation from receivers
Message-ID: <970122000454_1278301186@emout18.mail.aol.com>

In a message dated 97-01-21 22:29:26 EST, jproc@bellglobal.com writes:

<< Years ago, I heard that broadcasters collected TV ratings by sending fleets
 of vans into suburban neighbourhoods. >>

we need someone from the U.K. to comment. was this method
used to insure that people did not have a television for which
they were not paying license fees?   hue miller

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: "Grant Youngman" <nq5t@gte.net>
Subject: Ranger part needed ..
Message-ID: <199701212350.RAA25514@smtp.gte.net>

After looking at pictures and comparing them with the physical state of my newly acquired Ranger II, I've discovered that a gasket which apparently goes between the VFO dial escutcheon and the main cabinet is missing.

This also seems to be related to some binding of the tuning dial against the plastic dial face -- since without the gasket in place, the escutcheon is just slightly too close to the dial arm.

Anybody have one of these gaskets still in place on a parts unit Ranger?

Thanks .. Grant/NQ5T

Grant Youngman / NQ5T

nq5t@gte.net
http://home1.gte.net/nq5t/index.htm
Double Oak, TX -- nr Dallas

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: pmills@A.crl.com (Phil Mills)
Subject: Re: Ranger part needed ..
Message-ID: <199701220028.AA12775@A.crl.com>

Grant,

My Valiant has one that is all cracked and ugly looking and the only thing I've seen is some molding in the AES catalog at about $3 per foot. I think that there should be local sources of something similar at a lesser cost.....but I have not had time to research them. There appears to be nothing special about this gasket material and that a suitably long piece of a reasonably correct shape would both work well and look original.

Any other BA'ers have a solution?

thanks & 73,
Phil
.

>After looking at pictures and comparing them with the physical state
>of my newly acquired Ranger II, I've discovered that a gasket
>which apparently goes between the VFO dial escutcheon and the main
>cabinet is missing.
>
>This also seems to be related to some binding of the tuning dial
>against the plastic dial face -- since without the gasket in place,
>the escutcheon is just slightly too close to the dial arm.
>
>Anybody have one of these gaskets still in place on a parts unit
>Ranger?
>
>Thanks .. Grant/NQ5T
>
>
>-----------------------------------
>Grant Youngman / NQ5T
>
>nq5t@gte.net

>http://home1.gte.net/nq5t/index.htm
>Double Oak, TX -- nr Dallas
>
>
Phil Mills, AB5TH *****   *****
pmills@a.crl.com
281-992-5762 days
Friendswood, TX   (south of Houston)

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: jproc@bellglobal.com
Subject: RE: RCA RBC-5
Message-ID: <Chameleon.4.01.2.970120233103.jproc@jproc.bellglobal.com>

>We were worried about receiver radiation.

After reading the many opinions on this thread about receiver radiation, I concluded that PERCEPTION may have been the operative word during the war years. Convoy orders meant to shut down receivers during periods of radio silence were REAL orders. The threat may have been unfounded or a reaction to perceived fear. There is an old saying which is still true today - 'Perception is reality'. I'm sure that there were a few instances where regens could be picked up but they were probably the exception rather than the rule. After all, a few years ago, the DX record on 10 Ghz was 370 miles - all done with 10 mw of power between two coastal locations!

When the TBS receiver/transmitter was introduced into naval service, many captains got 'loose lipped' in the belief that the sets were only line of sight units and could never be picked up by the enemy. They had to be reminded otherwise.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
Radio Restoration Volunteer
HMCS Haida Naval Museum
Toronto, Ontario

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Ho4bart@aol.com

Subject: Re: RCA RBC-5
Message-ID: <970121124606_816554457@emout09.mail.aol.com>

In a message dated 97-01-20 23:56:03 EST, jproc@bellglobal.com writes:

<< When the TBS receiver/transmitter was introduced into naval service, many
 captains got 'loose lipped' in the belief that the sets were only line of
 sight units and could never be picked up by the enemy. They had to be
 reminded otherwise.   >>

can someone with firsthand experience or access to same comment
on the use of the "Talk Between Ships" in radio silence situations?
my understanding of this was that these sets supplanted HF / LF radio
in convoy. ditto the navy TBY packset, which was used on convoy
freighters (navy only? ships) with a battery pack or, i assume the
infrequently seen 110 ac supply, and the 76 mc/s ground plane ant.
(seen in Fair's catalog not too many years back) . U-boats did not
carry a vhf receiver, that's a fact, but of course that was up to
speculation in 1942, and could have easily been possible.
Gordon E White, the Great White Father of surplus lore, mentioned in
his column, pacific ocean reception of atlantic ocean TBS traffic.
>> say, also, has anyone else heard the MBF called "Man's Best
Friend" ? or is that some postwar ham's coinage?
some ship magazine like "Sea Classics" had an article last summer
by a U-boat veteran, stated also that they tried to pick up ship traffic
on the (i think he called it) 123 meter band (i.e. the old 2 mc/s
marine band) but heard nothing.   73 hue miller
"Keep 'Em Lighting"

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: "Bob Scott" <ROBERT.R.SCOTT@cpmx.saic.com>
Subject: Re- 6146's
Message-ID: <n1358283769.98216@cpqm.saic.com>

Sorry this is late, but I have been having mailer problems.

Back in my novice days I used a KnightKit T-150A. I think its finals were
6146As. At that time the 6146B came out and I wrote to Allied and asked them
if I could use them in place of the 6146A and they recommended that I do not.
This came up about a year ago and someone mentioned to me that the power
supply in the T-150A might have been too marginal for the additional current
draw of the 6146B. As hard as I might find that to believe, I will probably
stick with the 'A' version of the tube <g>.

I still owe someone a copy of the schematic. I will tie a string around my
neck and see if I can remember to get it copied.

73 et all,

Bob
W4FPJ

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: EdKB2NSP@aol.com
Subject: Re: Re- 6146's
Message-ID: <970121193753_1445530178@emout14.mail.aol.com>

Hi Bob,
My 2nd xmtr after returning to ham radio 5 yrs ago was a Knight T-150, and I must say, it performed quite well on 80 & 40 CW ! above that she started to chirp and drift.
I replaced the finals with a pair of 6146Bs and never had any problems.
T-150s got a bad reputation somewhere along the line and I often think the engineering would have been fine as an assembled unit. but was too touchy for the variables of kit building !
Mine dependably pushed a Bird 43 just to the 100 watt line into a good dummy load and wasn't picky about mismatches when run light (85w).I've still got it, but pulled the finals for my DX-100B. The case needs paint badly, but the front panel is in very nice shape. I f I could find some room here, I might want it as a backup for the other seven xmtrs. <VBG> HI HI
Best wishes, Bob

Ed K. in Ocean City, NJ

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Spencer Petri <spetri@e-tex.com>
Subject: Receiver Radiation
Message-ID: <m0vmZNa-0000AjC@e-tex.com>

Hello gang,

Years ago I dimly remember reading a true account of a sinking ship. The transmitter was dead so the sparks turned up the regeneration into oscillation and keyed the antenna lead. The distress signal was heard and the survivors were saved from the water.

73 de Pete WA5JCI

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997

From: Ho4bart@aol.com
Subject: Re: Receiver Radiation
Message-ID: <970121135008_1892508732@emout15.mail.aol.com>

In a message dated 97-01-21 01:13:44 EST, spetri@e-tex.com (Spencer Petri) writes:

<<
 Years ago I dimly remember reading a true account of a sinking ship. The transmitter was dead so the sparks turned up the regeneration into oscillation and keyed the antenna lead. The distress signal was heard and the survivors were saved from the water. >>

does anyone recall this,if so i crave to know the reference. is this the USS Nautilus (submarine) which lost power while on its North Pole cruise, and the radioman keyed his regen receiver to communicate with a nearby Navy surface vessel? this latter incident was related in one of the bulletins of the SOWP, maybe 15 years ago or so?
hue miller

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: JOHN_SEHRING.parti@ecunet.org
Subject: RE: RECEIVERS
Message-ID: <9701202003.aa12535@pcusa01.ecunet.org>

I'd like to take the Halli SX-101's and -101A's out of the `Hall of Shame' doghouse.

Owned 'em both. They just need some DeOxit to cure those `flakey switch' blues. Truth be told, I lived with those switches in the pre-DeOxit days for about 20 years and it drove me crazy too.

Curiously, the three SX-100's I've owned (they have almost the same circuitry & switches) did not suffer from this.

Yes, I agree the Drakes do run circles around them in many ways, using 1/4th the volume and weight.

-John Sehring (01/20/97 3:01 pm ET @Midlothian, VA) ucc wb2eqg

---

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: EdKB2NSP@aol.com
Subject: Re: RECEIVERS
Message-ID: <970121012027_1344723991@emout08.mail.aol.com>

John

I'd second that observation on the SX-101 series !!! Once the switches are cleaned and treated the receiver behaves like it's been through obediance school !!

Although It's not my favorite rcvr, I do use it regularly just to stay comfortable with it's operation.

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: johnz@earthlink.net
Subject: Regenerative Receiver Leakage
Message-ID: <199701210332.TAA14636@germany.it.earthlink.net>

Hue and other Boatanchorers:

First, thanks to all on the list who responded to my questions about the Navy RAL receiver. Because I also had heard the stories of a ship being tracked due to regenerative receiver leakage I was suprised to hear when my friend's father told me that he used the RAL as his receiver of preference in copying daily CW traffic on an escort carrier in active duty. When I asked him precisely about this his response was that the RAL "did not leak any more that a well designed superhet".

I have a far different story to tell about my own first receiver: an Allied Span Master! I was about 10 when I dug this out of the trash can at a nearby high school. It was physically completely thrashed; the decorative front panel and main tuning dial/scale were gone. I was amazed that it worked when I plugged it in at home and a few hours of cutting fabric and paper made the front panel more presentable with some semblace of a dial! I heard my first shortwave broadcast, found out about ham radio, learned the morse code and even some theory by "reading the mail" and eventually used it to make my first Novice contacts. I guess I should say "legal" contacts but before your get any wrong ideas let me explain!

It wasn't long after getting the Span Master up that I got to know some of the local already licensed gang - and they got to know me. I just couldn't figure how they knew that I was listening to them! At that time I had no understanding that my oscillating detector was "jamming" their QSOs as I was just listening to them, but when I would tune in to listen it wasn't long before I would get a phone call or visit from one of them. Eventually getting "wise", I opened the line between one of the two regeneration controls, only knowing that these were the ones that controlled the squealing, to insert a *key* and to both the "locals" suprise and mine, was talking back to them without the telephone and one of them was almost 10 miles away! How many watts did this thing run??!! The *receiver* antenna, by the way, was a single piece of wire about 30 feet long going from the table through the closet and then up into the attic; nothing particularly efficient or matched (but perhaps accidentially resonant on 40).

Speaking of the Span Master, as I became more enlightened it became a parts source. It wasn't until last year that I found one to replace it and see what the front panel and dials really looked like! When I tune with it now I can't believe that at one time I thought of it as the greatest receiver ever - and it was, considering all that I was able to imagine with it!

John Zitzelberger
Thousand Oaks, CA
johnz@earthlink.net

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: Re: Regenerative Receiver Leakage
Message-ID: <32E45824.6657@vifp.monash.edu.au>

johnz@earthlink.net wrote:

<snip>
> understanding that my oscillating detector was "jamming" their QSOs as I was
> just listening to them, but when I would tune in to listen it wasn't long
> before I would get a phone call or visit from one of them. Eventually
> getting "wise", I opened the line between one of the two regeneration
> controls, only knowing that these were the ones that controlled the
> squealing, to insert a *key* and to both the "locals" suprise and mine, was
> talking back to them without the telephone and one of them was almost 10
> miles away! How many watts did this thing run??!! The *receiver* antenna,
> by the way, was a single piece of wire about 30 feet long going from the
> table through the closet and then up into the attic; nothing particularly
> efficient or matched (but perhaps accidentially resonant on 40).

This reminds me of a hack that was practiced by many when I was a teenage wannabee. Disposals carbon microphones were cheap and plentiful in those days. We used to connect one between the oscillator gang and the aerial terminal of a typical 5 valve superhet ("All Australian 5"s all had power transformers heh heh) and were able to transmit short distances (up to a mile or so I think, it was 30 years ago!).

Getting back to regens though, my understanding is that they didn't actually oscillate unless the regen was turned up enough. This may have ben done for CW but for AM they would operate below the point of oscillation and presumably be as quiet as a TRF.

Comments welcome - my only experience of regens is as rather fiddly simple one valvers of my youth, quickly displaced by hacked 5 valve superhets.

73

Morris

Morris Odell Victorian Institute of Forensic Medicine
Forensic Physician 57-83 Kavanagh St, Southbank 3006
morriso@vifp.monash.edu.au Victoria,
Australia

Web page: http://www.vifp.monash.edu.au/CFM/staff/mo.html

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Ho4bart@aol.com
Subject: Re: Regenerative Receiver Leakage
Message-ID: <970121123130_441813177@emout05.mail.aol.com>

In a message dated 97-01-20 22:35:15 EST, johnz@earthlink.net writes:

<< friend's father told me that he used the RAL as his receiver of preference
in copying daily CW traffic >>

did he mention any specifics of why he preferred this receiver? i saw
an ad for E M Sargent type 10 receiver in a 1937 magazine, and the
text sed something like "circuit still preferred by many cw men". i like
to use these too, but probably for some slightly different reasons: more
knobs to tweak, more fun. i also like the seeming less noise, quieter
background, or a clarity of reception? is that all subjective or is there
something to this? (in 1997, "cw person") hue miller

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Ho4bart@aol.com
Subject: Re: Regenerative Receiver Leakage
Message-ID: <970121134545_2057333556@emout18.mail.aol.com>

In a message dated 97-01-21 00:49:19 EST, morriso@vifp.monash.edu.au (Morris
Odell) writes:

<<
This reminds me of a hack that was practiced by many when I was a
teenage wannabee. Disposals carbon microphones were cheap and plentiful
in those days. We used to connect one between the oscillator gang and
the aerial terminal of a typical 5 valve superhet ("All Australian 5"s
all had power transformers heh heh) and were able to transmit short
distances (up to a mile or so >>

i'm sorry, this is a liitle off R-390s but i just couldn' t resist this. the olde
"Sergeant Bilko" TV show with Phil Silvers in the early 1960s had one installment where the sergeant cooks up some kind of gambling scam by having one of his soldiers at a horseracetrack in Florida, radio race tips back to the barracks, where one of Bilko's radioman soldiers has modified an AA5 (standard five tube) plastic table radio to be a 2-way transceiver. actually, you do this by rewiring the speaker right to the grid of the 1st audio (12AV6), and the mixer 12BE6 (12SA7) plate is disconnected from the B+ and rewired to the plate of the 50C5. then some antenna wire is connected to the osc tuned ckt. this goes a block or so-- the bigger the tubes the better (octals vs mini). actually the low impedance speaker doesn't drive the grid that well, so you have to speak real loud. i have done this a couple times on sets that were destined to become parts. after the 2nd or so time i thot to myself, " i could probably do this on a bet, blindfolded, and with only a scissor and some adhesive tape."   yes, a cold 807 or 2 or its equivalent, helped inspire this.
(the radios were really ugly junk, not catalin or valuable ugly junk). i think now a more improved way, not do-able blindfolded, method would be to use the speaker and xmfr to drive the audio grid, then connect the mixer-osc plate and the audio output plate together with a resistor to B+. Heising modulation, and a circuit pretty much like those "wireless broadcasters" by Knight & Lafayette in the early 1960s.
(and i do mean blindfolded, presented with any radio never scrutinized before, as long as AA5 ckt)   hue miller

---

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Tom Clarke <fclarke@erols.com>
Subject: Re: Report on Richmond FrostFest
Message-ID: <32E423FC.665D@erols.com>

Walter L. Marshall wrote:
>
>   The R51J-4 you saw was really a R588-URR with a 75A-2
>
> Any that's what the owner told me. It had been modified and
> was pretty dirty.

Yep it sure was crummy for $250. Also saw a BC-669, fairly dirty but not dented or modded at first glance. Was asking $150.

As I walked in at opening bell, I saw a gent heading towards his car with a command set Rx under his arm.......probably the BC-455 I am looking for!!

Sorry I didn't get to meet the BAers....ok I'll check my mail in a more timely fashion in the future!!

Timonium in April??? Usually some good BA s there! I'll be in the indoor tailgate area (cow palace).

Tom Clarke, W4OKW
fclarke@erols.com

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: lsmith <ckvnfm@mb.sympatico.ca>
Subject: RX Radiation
Message-ID: <32E592E6.6F8F@mb.sympatico.ca>

Hello to all:
Just to add to the lore of this thread, I recommend reading "Spy Catcher" unfortunately, the authours name escapes me at the moment and the book is still my un-opened boxes from moving to this QTH after a mere 4 years. One section of the book deals extensively with the radiolocation of Russian KGB agents operating in Britain during the 1960's. A specially equipped aircraft was used to DF the receivers of these agents (no transmissions were being made by the agents originating in the UK, only receiving coded orders from the USSR), after the aircraft had localized the signal from the oscillator, tracking vans were used on the ground. Once the exact location was determined, the residence was put under surveillance until the little devils would screw up on something that would legitimately allow the police to enter the residence, or they would just do a secretive breakin at a time that the agent was away from his house, and search for a rx that was tuned to the appropriate freq. After that, it was just a matter of time before the investigation process would turn up material which would confirm suspicions of spying.
I also highly recommend the very thick book "Most Secret War" by R.V. Jones, who was scientific advisor to Winston Churchill during WW 2. This excellent historical recollection tells of many advances on the radio front, and is fully worthy of your attention if you can find a copy. There are lots of photographs dealing with everything scientific from soup to nuts, and is one of my all-time radio favourites (Canadian spelling). Spell-binding reading which will put you in a real BA restoration mood while nodding off at bedtime...if you can put the book down.
My best 73 to all "on freq" on the BA List...I read every posting within minutes of walking in the door each day...keep it up Jack...we love 'ya!
J. Lee Smith,
VE4ANC

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Ho4bart@aol.com
Subject: Re: RX Radiation
Message-ID: <970122001152_1959713553@emout06.mail.aol.com>

In a message dated 97-01-21 23:27:31 EST, ckvnfm@mb.sympatico.ca (lsmith) writes:

<< A specially equipped aircraft was used to DF the receivers of these agents (no transmissions were being made by the agents originating >>

in light of what we have heard from people who have actually done the experiment, and not come up with a usable range for RDFing any modern radio receiver, this puzzles me.
or......did the spy think something was up, when the aircraft circled his domicile at a couple hundred feet up?   hue miller

---

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Michael Crestohl <mc@shore.net>
Subject: Special BA-List identification
Message-ID: <199701211431.JAA29474@northshore.shore.net>

Hello to All Hamfesters!!!

I have read several postings here about special identification badges and gimmicks to allow us to spot one another at flea markets, hamfests, etc. This is a good idea in principle and should be discussed. However, allow me to relate a tale that might put this into perspective.

Last fall I set up a table at a medium-sized flea market. My neighbor was one of those flea market Gypsies (no cultural slur intended - we must be PC here!) - you know the type - lots of stuff but no call, etc. Anyways a fellow with an Electric Radio 'T' shirt was looking at something on the table. After he walked away my neighbor leaned over, hand covering the side of his mouth so no one nearby could hear and whispered conspiratorily "the guys with those shirts are rich and will pay big-time for this old junk!"

Something to think about here------a special symbol only known to us - like a secret handshake or something!

73,

Michael

W1RC

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Nick England <nick@cs.unc.edu>
Subject: Re: Special BA-List identification
Message-ID: <199701211620.LAA23519@altair.cs.unc.edu>

I think having a BA "rally" earlier than lunch is a good idea. Several folks were gone by the time we had ours at Richmond. Maybe pick a time long enough after the opening bell so that everyone has had a chance to scan the aisles at least once :-)

Last year at the Richmond fest, we tried wearing "BA" name tags that had the "boatanchor radio relay league" symbol. The problem is that everyone's eyes were always down, scanning on and under the tables for that elusive goodie.

How's this for a useful and recognizable piece of BA apparel ??
Lets get a batch of those heavy-lifter back-support straps with the EF Johnson Viking logo printed on them :-)

Seriously, caps and badges are OK when you aren't looking for gear, but when your AN/UPB-1 (Utility, Radar, Boatanchor) search system is active, anything above T-shirt level gets filtered out by the HTI (Heavy Target Indicator) circuitry.

73 & Have Fun,
Nick England KD4CPL nick@cs.unc.edu   Univ. Of North Carolina
http://www.cs.unc.edu/~nick   Chapel Hill NC

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: W9FS@aol.com
Subject: Re: Special BA-List identification
Message-ID: <970121114937_580287292@emout14.mail.aol.com>

Might I make a suggestion, The pin on BUTTONS with maybe a anchor superimposed over a picture of an old SX-28 or something? The cost to each person would be less than $10 including postage and you can wear it time and time again. If enought people were interested I could research the project and get a factual price.

Jerry W9FS
W9FS@aol.com

In a message dated 97-01-21 09:34:31 EST, mc@shore.net (Michael Crestohl) writes:

> Subj: Special BA-List identification
> Date: 97-01-21 09:34:31 EST
> From: mc@shore.net (Michael Crestohl)
> Sender: boatanchors@theporch.com
> Reply-to: mc@shore.net
> To: boatanchors@theporch.com (Multiple recipients of list)
>
> Hello to All Hamfesters!!!
>
> I have read several postings here about special identification badges and
> gimmicks to allow us to spot one another at flea markets, hamfests, etc.
> This is a good idea in principle and should be discussed. However, allow
> me to relate a tale that might put this into perspective.
>
> Last fall I set up a table at a medium-sized flea market. My neighbor was
> one of those flea market Gypsies (no cultural slur intended - we must be
> PC here!) - you know the type - lots of stuff but no call, etc. Anyways
> a fellow with an Electric Radio 'T' shirt was looking at something on the
> table. After he walked away my neighbor leaned over, hand covering the
> side of his mouth so no one nearby could hear and whispered conspiratorily
> "the guys with those shirts are rich and will pay big-time for this old
> junk!"
>
> Something to think about here------a special symbol only known to us -
> like a secret handshake or something!
>
> 73,
>
>
> Michael
>
> W1RC
>
>
>

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: Special BA-List identification
Message-ID: <Pine.GSO.3.93.970121071657.24838A-100000@uhunix3>

> Might I make a suggestion, The pin on BUTTONS with maybe a anchor
> superimposed over a picture of an old SX-28 or something? The cost to each

Even more subtle: Everyone head to the nearest Navy surplus outlet and get a Chief's insignia (it's an anchor), or a Boatswain's insignia (crossed anchors). Available are pin-on collar and hat devices, or sew-on collar and shoulder devices (trim off the chevrons).

Jeff KH2PZ (who used to wear the Coast Guard's crossed anchors insignia, and Sparks insignia, too!)

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Thomas Bowes <bowes@klondyke.net>
Subject: Re: Special BA-List identification
Message-ID: <32E580B9.3508@klondyke.net>

Michael Crestohl wrote:

> Last fall I set up a table at a medium-sized flea market. My neighbor was one of those flea market Gypsies (no cultural slur intended - we must be PC here!) - you know the type - lots of stuff but no call, etc. Anyways a fellow with an Electric Radio 'T' shirt was looking at something on the table. After he walked away my neighbor leaned over, hand covering the side of his mouth so no one nearby could hear and whispered conspiratorily "the guys with those shirts are rich and will pay big-time for this old junk!"

What a Joke!!!! I don't suppose Mike bothered to tell the guy that most of the fellows wearing those shirts can remeber when that old junk was sold by the pound and still expect to pay accordingly! There are reasons why BA type hams have a reputation for being....er, thrifty with a buck. I oughta know, I'm living proof.

--
"Tom"

Thomas Bowes
KK8M
35332 Churchill
Richmond, Michigan 48062-1179

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: Jack Harper <jharper@bs2000.com>
Subject: Re: Special BA-List identification (Colors!)

Message-ID: <199701211539.IAA11547@lynx.csn.net>

At 08:32 1/21/97 -0600, Michael W1RC wrote:

> Hello to All Hamfesters!!!
>
> I have read several postings here about special identification badges and
> gimmicks to allow us to spot one another at flea markets, hamfests, etc.
> This is a good idea in principle and should be discussed. However, allow
> me to relate a tale that might put this into perspective.

<snip of interesting stuff about a flea-market gypsie>

> Something to think about here------a special symbol only known to us -
> like a secret handshake or something!

Ooohhh! Gang Colors! Thatz whot we need. I suggest that we all wear a "Hammarlund Grey" hankerchef(sp) hanging out of our left rear pocket.

However, be warned, if I see any "Heathkit Green" Colors, I will let a few rounds loose from my Colt .45 (I also collect BA handguns).. Youse guys will never know wot hitcha.

See ya at "Midnight Basketball"... Check your piece at the door. :)

Jack, KC0LR (Friend to all things Hammarlund)

```
----------------------------------------------------------------------
Jack Harper                             Bank Systems 2000, Inc.
e-mail: jharper@bs2000.com              350 Indiana Street, Suite 800
voice:  303-277-1892 fax: 303-277-1785  Golden, Colorado 80401 USA

                "21st Century Financial Applications"
        Optical Cards for Bank, EBT, and Medical Applications
Visit our Web Page: http://www.bs2000.com/talos (Last Update: 960926)

      1024-bit PGP crypto key with ID: 8FB07075 created 960728
    Fingerprint: 75 DA 06 35 F8 3D AC EC 3A F2 7C 59 A1 11 A5 74
      Key available from Public Key Servers and above Web Page
----------------------------------------------------------------------
```

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: "Walter Fairclough" <wfairclo@netcom.ca>
Subject: Re: SX101/SX101-A Freq Coverage
Message-ID: <199701211239.HAA17819@tor-srs1.netcom.ca>

I have an SX-101A MKIII which covers 80-10 and the 6 & 2 meter bands (with converters). It has a product detector.

I obtained this from the original owner and it came in its original box, the one that says "Hallicrafters The Radio Man's Radio", sale invoices and manual. It is mint, just like new from the factory.

Real nice receiver although my mint SX-100 gives it a good run for the money.

Couldn't resist the trivia.

PS

Not for sale or trade.

Walter Fairclough
Manotick, Ontario
wfairclo@netcom.ca

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: jproc@bellglobal.com
Subject: TBS
Message-ID: <Chameleon.4.01.2.970121221056.jproc@>

Dear BA'ers,

Recently there was a reference in a post which called the TBS receiver/transmitter 'Talk Between Ships'. I just wanted to clarify the operators who used these sets adapted that unofficial name. With a frequency range of 60 to 80 mhz, today, it is a useless boatanchor except for static display.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
Radio Restoration Volunteer
HMCS Haida Naval Museum
Toronto, Ontario

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Rich Arland <qrprich@postoffice.worldnet.att.net>
Subject: TCS Sets-WWII PT Boats & Subs

Message-ID: <19970121043630.AAA1704@LOCALNAME>

Gang:

Thanks to all who replied about the TCS sets. I can hardly wait until Bob hands them over. According to several answers to my original e-mail these TCS sets were used until the 1960s aboard diesel subs, among other vessels. Looks like they had quite a colorful past.

Now, Conard Murray advised that they were originally used in PT boats. Anyone have any good books to read about PT boats and WWII? I have read "They Were Expendable" many years ago. Anything more current, with an emphasis on radio and radar technology in addition to blood and guts action? (Or is it asking too much to get all three topics covered in one text?)

On to fleetboats (subs): Edward L. Beech (or Beach) wrote a fictionalized trilogy about subwarfare (Run Silent, Run Deep, Dust on the Sea, and one other title that escapes me) and one non-fiction book about his exploits on fleetboats in WWII. Any suggestions on good reads? In particular I am interested in radio, radar and sonar technology as well as the war patrol aspect. I'm looking for background material for upcoming articles as well as a good read.

Coast Watchers: another topic that I have not seen much on. As I understand it, the Aussies had some real antiquated gear that they lugged all over the islands, spotting Japanese inplacements and convoy movements. Hazardous duty, to say the least. Any good titles that I need to get from the library?

73 rich K7SZ

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: paul Veltman <veltman@netcom.com>
Subject: Re: TCS Sets-WWII PT Boats & Subs
Message-ID: <Pine.3.89.9701202219.A5104-0100000@netcom2>

On Mon, 20 Jan 1997, Rich Arland wrote:

> Coast Watchers: another topic that I have not seen much on. As I understand
> it, the Aussies had some real antiquated gear that they lugged all over the
> islands, spotting Japanese inplacements and convoy movements. Hazardous
> duty, to say the least. Any good titles that I need to get from the library?
>

Ah Ha! A book review. The book is:
Lonely Vigil

Coastwatchers of the Solomons
by: Walter Lord
The Viking Press
New York
1977.

Excellent book. It has some really neat BA photos, including a close up photo of the Coastwatcher's standard 3-B-Z teleradio. "Considered a marvel of compact efficiency in this pre-transistor era, it was a mass of knobs and dials and weighed nearly 300 pounds, not counting batteries, charging engine and fuel."

Regards,

Paul

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Ho4bart@aol.com
Subject: Re: TCS Sets-WWII PT Boats & Subs
Message-ID: <970121132126_748046850@emout16.mail.aol.com>

In a message dated 97-01-21 00:22:34 EST, qrprich@postoffice.worldnet.att.net (Rich Arland) writes:

<< I'm looking for background material for upcoming articles as well as a good read. >>

i would like to 2nd this. if the readers have come across references to classic anchors in otherwise non-radio military histories, why not just post the reference. i believe many of us enjoy learning more about the original context, not just the plate current.
i once saw a book about the PT boat service, on the inside cover had a photo of pt crew classroom learning about the tcs equipment up front. navy texts cite this equipment in ambulances and patrol jeeps also. the collins 50-year book also briefly mentions the tcs and even has a little poem "TCS you are on your way/ to do your duty for the U S A" (The First 50 Years, Ken Braband, Rockwell International, 1983). sez also 35k produced. in 1976 i was working in seattle when one of the regulars pulled up in front with a crate on the back of his truck. abt a 4 x 4 x 3 ft wood crate. you looked down in and there was a factory fresh TCS with all, all the accessories. (the 1944 air had already escaped, no historic hyperventilating was possible). this was near the end of 1976, a m on the commercial radio bands was due to expire at the end of the year, and Navy MARS at Sandpoint NAS was letting go of their last TCS's. I guesstimate, from what i recall hearing, about a half dozen. i hope some of these were kept together! i know some weren't, because i saw units of the complete

sets being sold separately later. some of the hams i think liked to use the xmtr for teletype, get rid of the rest.

do you recall that Fair ad that sed "TCS-12, late model extra desirable for c w" ? what was that all about? from my tcs manuals i read that some models had less selectivity, perhaps more for vehicle use; i don't have my manual close, but i remember the -7 was one of the ones with broader selectivity. but i think the Fair ad was only talking about the xmtr.

Bill Moore, a ham in Iowa , in the last couple years sold a TCS set that had a collins commercial type nameplate (type 18Q, i think it is), not a "TCS" nameplate.

also, that 900#### manual i mentioned before mentions TCS's in stainless steel (maybe also aluminum) cabinets for use in mine-sweepers, honest, no hallucination, altho again this is in storage so i can't reference it.

re coastwatchers: the AWA Teleradio wasn't any more ancient or primitive than any other 1940s era boat or vehicle mobile HF radio, from what i've seen. "Lonely Vigil" by Walter Lord is a popular treatment of this story, tho you will hunger for more details. this is and easy book to find used. i think he also wrote "Night to Remember" abt the Titanic, am i right? "The Coast Watchers" by (Commander) Feldt is a harder to find but more authoritative- he was there. You will still want more details altho you'll get a good idea how much fun it was to lug the radio and its car batteries and charger thru the jungle being persued by people with a poor sense of humor, who are wanting to torture, then kill you. hue miller

---

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: bdhall@ghg.net (Benjamin D. Hall)
Subject: Re: TCS Sets-WWII PT Boats & Subs
Message-ID: <32E57739.655@GHG.net>

Rich Arland wrote:

Hi Rich and list!

> On to fleetboats (subs): Edward L. Beech (or Beach) wrote a fictionalized
> trilogy about subwarfare (Run Silent, Run Deep, Dust on the Sea, and one
> other title that escapes me)

Ah, "Run Silent, Run Deep!" one of my favorite movies. In fact, I have sound files on my computer here that I digitized myself with the dive horn in the background and Clark Gable yelling "DIVE! DIVE!" for when I minimise windows, and beeping and the radar op reporting "SJ Contact, SJ Contact, bearing 330, range 15 miles" for when the computer messes up, torpedo screw noises and Clark Gable saying "Crash dive, sound collision alarm" and then the alarm going off, Clark Gable saying "Whats the torpedo run?" and Burt Lancaster responding "2500 yards, Sir" and Clark saying "Commence firing!" for when the computer messes up again... Fun stuff! So even my computer has BA influences!

Which leads me to a question: When Clark Gable is talking with Burt Lancaster in the Captain's Quarters, there is a BIG boatanchor behind them. Looks to me to be a large HRO-C like on page 83 of Moore's. Anyone confirm? Were HRO's used on subs in WWII as Captain's receivers?

COMMENCE FIRING!
Ben
--

```
----------------------------------------------------------------------
 From the computer of            | Collector of fine firebottle
 Benjamin D. Hall, Houston Texas | equipment, as well as other things
 BDHall@GHG.net (home) -or-      | involving Earth, Air, Water, and
 Benjamin.D.Hall1@JSC.NASA.gov   | Fire.
---------------------------------------------------------------------
```

PLEASE NOTE MY NEW HOME E-MAIL ADDRESS above. My old address, BDHALL@GHGCorp.com, will still work for a period of time however.

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Tom Clarke <fclarke@erols.com>
Subject: Re: TCS Sets-WWII PT Boats & Subs
Message-ID: <32E58C3C.299@erols.com>

Rich Arland wrote:

>
> Gang:
>
> Thanks to all who replied about the TCS sets. I can hardly wait until Bob hands them over. According to several answers to my original e-mail these TCS sets were used until the 1960s aboard diesel subs, among other vessels. Looks like they had quite a colorful past.

When I was a brand new Ensign (ca 1963)serving in minesweepers (Coastal Mineswreper MSC-195, 144 feet of Northern Pine!)we had a pair of TCS rigs on board. One was in CIC and the other was hidden down in the ET shop. I spent many a happy hour lurking around on 80 and 40 meters with that rig. Antenna was a standard shipboard 35 foot whip. The "big rig" used by the radiomen for copying the fleet broadcasts and sending traffic to the shore stations was an SRT-14 transmitter and SRR-13 receiver. This usually fed a wire type antenna between the mast and the fantail of the ship.

This whole installation was replaced during a shipyard overhaul with a couple R-1051 receivers and the matching transmitters. It ran about 100 watts or so and the big rig was a URC-32 I think. They also replaced the tube type UHF transmitter receiver combos with something more up to date and reliable.

Good reads:

Instruments of Darkness by Alfred Price. History of electronic warfare mainly during WWII. Was the basis for a BBC series "The Secret War" seen on PBS occasionally.

Ultra Secret by F. W. Higginbotham. The story of the breaking of the German code and the amazing feats at Bletchley Park. Has a firebottle connection in that the computer (colossus) used to break the code had many, many tubes!!

Night Fighter by C. F. Rawnsley. Traces the developement of radar and night fighter tactics during WWII in the UK.

One of the stories involved the use of a "ham" receiver to detect and identify the German frequencies used to guide the bombers. It was as I recall a Halli S-36 carried in an aircraft.

73
Tom Clarke, W4OKW
fclarke@erols.com

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: Ho4bart@aol.com
Subject: TCS trivia, one more tidbit
Message-ID: <970121152727_1725585454@emout08.mail.aol.com>

i used a TCS rec & trans & heath qmult as a novice rig from an apartment. i learned 1) qmultipliers are good for your hearing, like being boxed on the ears is. 2) you don't want to dream up any ultrashort antenna design out of aluminum foil for 80meters, unless you keep a fire extinguisher handy, and 3) if you develop enuff RF voltage near a shared wall you can jam ANY radio, stereo, TV, musical instrument etc belonging to a noisey neighbor.

a mutual friend checked into the NW Navy MARS one nite in the early 1980s, using a TCS. we all had a giggle over that. he carefully zero beat the net before checking in & no one knew the difference. hue miller

From boatanchors@theporch.com Tue Jan 21 10:24:34 1997
From: w7ni@teleport.com (Stan Griffiths)
Subject: Tek tunnel diodes
Message-ID: <199701211447.GAA29942@kim.teleport.com>

Hi Folks,

I need to correct a couple of things I read on the net the last few weeks.

First, there are NO tunnel diodes used in the 549, 543B, or 545B triggers or sweep circuits, or anywhere else in the instrument. So if they are unobtainable, that's why.

Second, there ARE tunnel diodes used in the 544, 546, and 547 . . . several kinds, in fact. Some are available and some are not (at least I don't have any).

In the 547, D45 is either a 152-0154-00 or a 152-0140-01, depending upon serial number. I don't know if you can get away with using those different part number inerchangeably or not and I don't have any to experiment with to find out. They are both 10ma TDs.

Also in the 547, D85 is a 152-0125-00 and I have a bunch of those which I can sell for $5 each. They are 4.7ma TDs. The 152-0125-00 is used in other scope trigger circuits, too.

Also in the 547, are D245 and D285 and they are the same as D45 and D85, respectively. They are in the other trigger circuit.

Also, in the 547, D405 was either a 152-0081-00 or a 152-0402-00, depending upon serial number. Again, I don't know if you can get away with interchanging them or not. They are both 2.2ma TDs. I have one ONE 152-0081-00 (not for sale) and only a couple of 152-0402-00 which are also not for sale.

I also have a bunch of 10ma TDs which might be useable in D45 and D245 positions but I would have to try one to see. The 10ma TDs I have do not have a Tek part number assigned to them but that does not necessarily mean they won't work in the circuit. If somebody needs one, I can drop one in my 546 and make sure it works. If they work, I would want $10 each for them. If they don't work, you don't want them anyway.

So let me know if you want to stock up on 152-0125-00 TDs or if you want me to see if one of my odd-ball 10ma TDs will work for D45 or D245.

As far as the 544 and 546 are concerned, the TD story is the same as for the 547 except you only need two of them for a 544.

Stan w7ni@teleport.com

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Rich Arland <qrprich@postoffice.worldnet.att.net>
Subject: VK0IR Vintage Challenge
Message-ID: <19970121030224.AAA3430@LOCALNAME>

Gang:

Who else has worked the current Heard Island, VK0IR, DXpedition using BA gear?

If memory serves, they still have about a week on the island, so how 'bout we set up a challenge? Whoever works VK0IR with the OLDEST BA set gets a free 1 year subscription to the BA list (I have Jack's gold card, so this is not a problem!). Both TX and RX (or transceiver) have to be vintage gear (no paring up a Hartley transmitter with a FT-100MP for a receiver!). Any antenna you want...just work Heard Island!

Proof: a VK0IR QSL, naturally. (We're on the honor system, here....play fair!)

What say 'ye?

73 rich K7SZ

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: DCPIN@aol.com
Subject: Re: VK0IR Vintage Challenge
Message-ID: <970120224030_1759043572@emout16.mail.aol.com>

The Heard Island DXpedition has a web page that confirms whether you are in the log, date etc. www.ccnet.com/~cordell/HI.
I may give it a try with my Viking Adventurer but I'm sure that's not old enough to qualify.

Good Hunting

Chris KO4QW

From boatanchors@theporch.com Tue Jan 21 14:54:12 1997
From: Terry Burge <terrybu@netman.ENS.TEK.COM>
Subject: Re: VK0IR Vintage Challenge
Message-ID: <9701211636.AA14137@netman.ENS.TEK.COM>

If an FT1000mp driving a Henry 2K-Classic at 1500 watts into a 50 foot verticall with 40+ 33 foot radials isn't enough from
Oregon, I don't think any of my boatanchors are going to help.
Running geoclk I find the best shot I have at Heard Is. is on 40 meters
when I get home from work...there sunrise, my sunset. And still I can't
here them worth a ... My feeling are that Heard may be one of them that
got away. They were on 80 meters this morning but I couldn't copy them
so...you got to hear them to work them (in spite of how some list are run).
20 meters is dying real quick at sunset so that leaves the weekend for
that one.

Terry
KI7M

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: Mike Maloney <ac5p@ionet.net>
Subject: Wanted Drake C-Line
Message-ID: <199701210240.UAA04465@mail.ionet.net>

Would like to find nice C-Line for primary CW operation. Any leads would be
appreciated. Thanks
73/Mike   ac5p@ionet.net

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Gordon Smith <wpe9ijx@holli.com>
Subject: what is it???
Message-ID: <199701220439.WAA08980@uro.theporch.com>

Greetings. I have something I picked up with some Air Force Mars
goodies about 25 years ago, and I have no idea what it goes into.
I assume it is a vfo/pto. Here are the markings:

Motorola part # 301D4263
(checked Feb. 18, 1958)
2.455 to 3.455 Mhz range
about 7 x 3 1/2 inches
appears to mount on a deck or plate
V701 is a 5749/6BA6W

other markings include - Z702, P717 (rf connector pigtail), J709
(a 9 pin connector on the back of the cylinder).

Any guesses? (I hope I'm not again revealing how ignorant of
military boatanchors I am :)).

Regards from WA9SLU.
WA9SLU WPE9IJX 1983 Honda GL650 Silverwing
Regards from the "Silicon Flood Plain" (tm) of Kokomo, In.
(home of Delco Electronics and the "Steer and the Stump" .....
ask me if you want more info :))
wpe9ijx@holli.com

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: John Poulton <jp@cs.unc.edu>
Subject: WTB: SX-42 Manual
Message-ID: <199701212307.SAA07436@mira.cs.unc.edu>

Thanks to Nick (KD4CPL), there's a beautiful Hallicrafters
SX-42 glowing greenly near (but not TOO near) the woodstove
at my house. The kids love it!

I'd very much like to acquire a manual for this BA,
preferably original, but a copy would be fine, too.
Anyone have one for sale, or willing to copy?

Thanks much!
John Poulton
jp@cs.unc.edu

From boatanchors@theporch.com Tue Jan 21 23:39:42 1997
From: Thomas Bowes <bowes@klondyke.net>
Subject: WTB: BC-221 Canned Crystal
Message-ID: <32E58744.33E9@klondyke.net>

I have a nice looking BC-221 freq meter that is unfortunately missing
the crystal unit, (looks like an octal based, metal tube, 1000kc). Does
anybody have one that they'd be willing to part with.

--
"Tom"

Thomas Bowes
KK8M

35332 Churchill
Richmond, Michigan 48062-1179

From boatanchors@theporch.com Tue Jan 21 01:29:08 1997
From: ARONGV@aol.com
Subject: WTB: Johnson TR Switch
Message-ID: <970121011958_173586153@emout18.mail.aol.com>

Hi Gang:

I'm about to launch two tube stations and I don't want to hassle with Dow key relays.

Any Johnson TR switches needing a good shot of RF from a Valiant and an Invader 2000?

I need two, because the rigs are in two different places in my basement. I'm putting the Invader 2000 with a SX-115 and the Valiant with a SX-101 Mark III. Ants are Windom Super Beam and 80 M Windon. They were up pretty high, but snow storm took one of my tallest tress down to 20 feet. Now I've got slopers whether I like it or not.

Drop me an E-mail if you have a TR switch available.

Tnx & Good Hunting guys...

De Ron/Wo0IZ   Kansas City

From boatanchors@theporch.com Tue Jan 21 19:35:31 1997
From: John <johnmb@mindspring.com>
Subject: WTB: NC300 or NC303
Message-ID: <199701212256.RAA12766@mule0.mindspring.com>

Looking for one of the above for my use...

I dont believe such a behemoth could make it through the hands of the Universal Package Smashers so I'd prefer one within reasonable distance of Raleigh NC, or hamfests in the vicinity.

Thanks for your help...
/John

PS: Still looking for Lysco, Stancor, UTC, Eby or other
lesser known ham gear from the 40's-60's

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+-----------------------------------------------------------------------------+
                  John Brewer                johnmb@mindspring.com
                  WB5OAU/4                AMI #24
  Vintage Gear web page: http://www.mindspring.com/~johnmb
+-----------------------------------------------------------------------------+
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